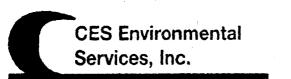
PA-2282



9532050



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 8/17/2007

Dear Randy Woolvine

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2282

Generator: Citgo Refinery

Address: 4401 LA Hwy 108

Lake Charles, LA 70665

Waste Information

Name of Waste: Sulfidic caustic solution

TCEQ Waste Code #: Product

Container Type:

Detailed Description of Process Generating Waste:

Merox processing of fuels using caustic to remove sulfides

Color: It brown to It red Odor: sulfur smell/H2S smell pH: 10.5-12.4

Physical State:

Incompatibilities: MSDS

Safety Related Data/Special Handling:

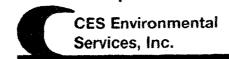
Normal PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460 Fa

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

	erial Producer Infor	mation	t . (, at	1 A Patie.
Company: Address:	<u> </u>	vetroleum 101	poration (Like Char	in the verifical
	4401 1A		· · · · · · · · · · · · · · · · · · ·	
City, State, Zip:	Sylphus Sylphus		T:41	1
Contact:	IMS) Kandy V	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		chasing Agent
Phone No:	3317-708	- 8274	Fax No: 3	37-108-6284
24/hr Phone:				
U.S. EPA I.D. No:	NA			,
State I.D.			SIC Code: N.F.	†
SECTION 2: Billin	ng Information – 🗌	Same as Above		
Company:	Citao A	courte Payable		
Address:		470		
City, State, Zip:	Houslin	JK 17210	-4970	
Contact:	(ms) Post	1 Woolwar Title	: Phichasina	Auest
Phone No:	325-7	18 -8274 Fax		
-				
		e Material / Product		
Name of Metanial /	Bundant Sulf	di Post	501. Fin	Lerox Processing of acts was a state of a
Name of Material /	Product:	in a causina.		Laci Diamas
Detailed Description	n of Process Genera	ting or Producing the	Material / Product: 1/	10 138 11 10 02 55 cm g of
			- 	yels using fraction for
DI- 1-104-4	1771 a · · · a	П о	, , , , , , , , , , , , , , , , , , ,	amore and when
Physical State:	∠ Liquid		□ Powder	
	Solid Solid	Filter Cake	Combination	
Color: L+ Branch	to L+ Red	0dom 5.11 4	et/112500222	
Color: LT Colors		0001: <u>29</u> 76. 3 ~ : 86-9.	11220	
Specific Gravity (wa	nter=1): 1,03 in	Density: lbs		
	The second second		- 8	
Layers:		Multi-ph	ise	
Container Type:	☐ Drum	☐ Tote	☑ Truck	Other (explain)
Container Size:			450) 30 Chra	Court (explain)
Container Size;	The state of the s	-	2 1 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	**************************************
·		<u></u>		
Frequency:	☐ Weekly		Quarterly	□ Yearly □ L>
Number of Units (co	ntainers):	Other: _		
	Pro	CODUCT		
Proper U.S. DOT Sh	ipping Name:		Hudroville 501	itim
Class: 8	UN/N.	A: 11.1120	Hydroxile 501	RQ: NA
POT BORENT CH		" <u>UIJ 1824</u>		7/7
Flash Point	pH	N/A	N/A	Solids
MA: Dil&Grease	pH 105 812 4	-		<i>o</i> %
	TOC	Zinc	Copper	Nickel
-/ Δ m σ/I	MA ma/l	mad	ALA mall	N N ma/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
いるなし	88 to 97 %	かいりか
John Historial	36-12%	10V Sa
		7

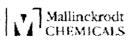
				
SECTION 5: Safety Related Data				
If the handling of this waste requires the use of special protect	tive equipment, ple:	ise explain.		
SECTION 6: Attached Supporting Documents				
List all documents, notes, data, and/or analysis attached to thi	s form as part of th	e material / produc	t profile.	
SECTION 7: Incompatibilities				
Please list all incompatibilities (if any):				
See A Huchid MS OS				
SECTION 8: Material Producer's Certification				
The information contained herein is based on generator know attached description is complete and accurate to the best of my omissions of composition properties exist and that all known or tested are representative of all materials described by this document	y knowledge and all suspected hazards h	oility to determine th	hat no deliberate	e or willful
Authorized Signature: MA - [Rolect		Date: <u>7-9</u> -0	7	
Printed Name/Title:				
				
CES USE ONLY (DO NOT WRITE IN THIS SPACE)				
Toubaical Managery L. May 1	Process Facility	Information:		
Technical Manager: Labelly Jeys	200			
Date: 7-9-0) Approved Rejected	KEC	YCLE		
	Plan	e dock with	clark H	1 banca
Approval Number: 2282	1 111160	L IADINA VIII		C. C. A. Bral
Approval Number.	11000			

MSDS Number: **S4040** * * * * * * Effective Date: **01/25/06** * * * * * Supercedes: **07/07/04**



Material Safety Data Sheet

From: Mallinckrodt Baker, Inc. 222 Red School Lane Phillipsburg, NJ 08865





24 Hoszi Emergency Telephone 908-859-2151 CHEMTREC: 1-800-424-9300

National Response in Canada CARUTEC 613-996-6566

Outside U.S. and Canada Cheminec: 703-527-3887

NOTE: DHEMTREC, CANUTED and National Response Camer emergency numbers to be used only in the event of chemical emergences involving a soil, leak, the exposure of modern involving membals.

All non emergency questions should be directed to Customer Service (1 800-582-2637) for assistance

SODIUM HYDROXIDE SOLUTIONS AND CONCENTRATES

1. Product Identification

Synonyms: Sodium hydroxide, 0.2 to 2.0 normal volumetric solutions; DILUT-IT® analytical concentrates; Sodium Hydroxide Concentrate Solution StandARd®

CAS No.: 1310-73-2 **Molecular Weight:** 40.00

Chemical Formula: NaOH in water

Product Codes:

J.T. Baker: 0328, 0329, 0387, 0388, 0389, 0390, 3726, 4687, 4691, 4715, 5633, 5634, 5635,

5636, 5638, 5665, 5667

Mallinckrodt: 4693, H361, H380

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Sodium Hydroxide Water	1310-73-2 7732-18-5	0.8 - 8% 92 - 99%	Yes No

3. Hazards Identification

Emergency Overview

DANGER! CORROSIVE. HARMFUL IF SWALLOWED OR INHALED. CAUSES BURNS TO ANY AREA OF CONTACT. REACTS WITH WATER, ACIDS AND OTHER MATERIALS.

SAF-T-DATA(tm) Ratings (Provided here for your convenience)

Health Rating: 3 - Severe Flammability Rating: 0 - None

Reactivity Rating: 2 - Moderate

Contact Rating: 4 - Extreme (Corrosive)

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD;

PROPER GLOVES

Storage Color Code: White Stripe (Store Separately)

Potential Health Effects

The health effects from exposure to diluted forms of this chemical are not well documented. They are expected to be less severe than those for concentrated forms which are referenced in the descriptions below.

Inhalation:

Severe irritant. Effects from inhalation of mist vary from mild irritation to serious damage of the upper respiratory tract, depending on severity of exposure. Symptoms may include sneezing, sore throat or runny nose. Severe pneumonitis may occur.

Ingestion:

Corrosive! Swallowing may cause severe burns of mouth, throat, and stomach. Severe scarring of tissue and death may result. Symptoms may include bleeding, vomiting, diarrhea, fall in blood pressure. Damage may appears days after exposure.

Skin Contact:

Corrosive! Contact with skin can cause irritation or severe burns and scarring with greater exposures.

Eye Contact:

Corrosive! Causes irritation of eyes, and with greater exposures it can cause burns that may result in permanent impairment of vision, even blindness.

Chronic Exposure:

Prolonged contact with dilute solutions or dust has a destructive effect upon tissue.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician, immediately. Wash clothing before reuse.

Eve Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Note to Physician:

Perform endoscopy in all cases of suspected sodium hydroxide ingestion. In cases of severe esophageal corrosion, the use of therapeutic doses of steroids should be considered. General supportive measures with continual monitoring of gas exchange, acid-base balance, electrolytes, and fluid intake are also required.

5. Fire Fighting Measures

Fire:

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire. Adding water to caustic solution generates large amounts of heat.

Special Information:

Use protective clothing and breathing equipment appropriate for the surrounding fire.

6. Accidental Release Measures

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Do not flush caustic residues to the sewer. Residues from spills can be diluted with water, neutralized with dilute acid such as acetic, hydrochloric or sulfuric. Absorb neutralized caustic residue on clay, vermiculite or other inert substance and package in a suitable container for disposal.

US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

J. T. Baker NEUTRACIT®-2 or BuCAIM® caustic neutralizers are recommended for spills of this product.

7. Handling and Storage

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Protect from freezing. Always add the caustic to water while stirring; never the reverse. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product. Do not store with aluminum or magnesium. Do not mix with acids or organic materials.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

Sodium hydroxide:

-OSHA Permissible Exposure Limit (PEL):

2 mg/m3 Ceiling

-ACGIH Threshold Limit Value (TLV):

2 mg/m3 Ceiling

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Physical data is displayed for a 5% solution of sodium hydroxide.

Appearance:

Clear, colorless solution.

Odor:

Odorless.

Solubility:

Miscible in water.

Density:

5% solution: 1.05

pH:

14.0

% Volatiles by volume @ 21C (70F):

No information found.

Boiling Point:

102C (216F) (5% solution)

Melting Point:

-4C (25F) (5% solution)

Vapor Density (Air=1):

No information found.

Vapor Pressure (mm Hg):

No information found.

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

No hazardous decomposition products.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Sodium hydroxide in contact with acids and organic halogen compounds, especially trichloroethylene, may causes violent reactions. Contact with nitromethane and other similar nitro compounds causes formation of shock-sensitive salts. Contact with metals such as aluminum, magnesium, tin, and zinc cause formation of flammable hydrogen gas. Sodium hydroxide, even in fairly dilute solution, reacts readily with various sugars to produce carbon monoxide. Precautions should be taken including monitoring the tank atmosphere for carbon monoxide to ensure safety of personnel before vessel entry.

Conditions to Avoid:

Heat, moisture, incompatibles.

11. Toxicological Information

Sodium hydroxide: irritation data: skin, rabbit: 500 mg/24H severe; eye rabbit: 50 ug/24H severe. Investigated as a mutagen.

\Cancer Lists\			
	NTP	Carcinogen	
Ingredient	Known	Anticipated	IARC Category
			~~
Sodium Hydroxide (1310-73-2)	No	No	None
Water (7732-18-5)	ИО	No	None

12. Ecological Information

Environmental Fate: No information found. Environmental Toxicity: No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: SODIUM HYDROXIDE SOLUTION

Hazard Class: 8 UN/NA: UN1824 Packing Group: II

Information reported for product/size: 460LB

International (Water, I.M.O.)

Proper Shipping Name: SODIUM HYDROXIDE SOLUTION

EPAPA001000010

0/17/2007

Hazard Class: 8 UN/NA: UN1824 Packing Group: II

Information reported for product/size: 460LB

15. Regulatory Information

\Chemical Inventory Status - Part Ingredient		TSCA	EC	Japan	Australia
Sodium Hydroxide (1310-73-2) Water (7732-18-5)		Yes	Yes	Yes	Yes Yes
\Chemical Inventory Status - Part	2\			 ınada	
Ingredient		Korea	DSL	NDSL	Phil.
Sodium Hydroxide (1310-73-2) Water (7732-18-5)			Yes		Yes Yes
\Federal, State & International ReIngredient	-SAR RQ	A 302- TPQ	Lis	SAR t Che	A 313 mical Catg
Sodium Hydroxide (1310-73-2) Water (7732-18-5)		No	No		No
\Federal, State & International Re	CERC	LA	-RCRA-261.33	-T	SCA- (d)
Sodium Hydroxide (1310-73-2) Water (7732-18-5)	1000		No	_	0
emical Weapons Convention: No TSCA 12 RA 311/312: Acute: Yes Chronic: No activity: No (Pure / Liquid)					

Australian Hazchem Code: 2R

Poison Schedule: S5

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 0

Label Hazard Warning:

DANGER! CORROSIVE. HARMFUL IF SWALLOWED OR INHALED. CAUSES BURNS TO ANY AREA OF CONTACT. REACTS WITH WATER, ACIDS AND OTHER MATERIALS.

Label Precautions:

Do not get in eyes, on skin, or on clothing.

Do not breathe mist.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Label First Aid:

If swallowed, give several glasses of water or milk to drink. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. In all cases get medical attention immediately.

Product Use:

Laboratory Reagent.

Revision Information:

MSDS Section(s) changed since last revision of document include: 3.

Disclaimer:

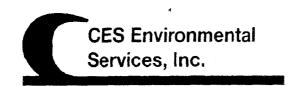
Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. MALLINCKRODT BAKER, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MALLINCKRODT BAKER, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

Prepared by: Environmental Health & Safety Phone Number: (314) 654-1600 (U.S.A.)

8/17/2007

PA-2301





Waste Pre-Acceptance/Approval Letter

Date 8/22/2007

Dear Orval W Lewis

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2301

Generator: Targa Midstream Services LP

Address: 10319 Hwy 146 North

Mont Belvieu, TX 77580

Waste Information

Name of Waste: Spent sodium hydroxide solution (from CBF unit)

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

A UOP Merox treating system for treating light mercaptans in the raw liquefied petroleur

gas stream

Color: dark

Odor: strong

pH: 12

Physical State:

Incompatibilities: acids

Safety Related Data/Special Handling:

standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	rator Information			
Company:	Targa Midstream S	Services LP		
Address:	10319 Hwy 146 N			
City, State, Zip:	Mont Belvieu, TX	77580		
Contact:	Orval Lewis		Title:	Technician
Phone No:	281-385-3215		Fax No:	281-385-3188
24/hr Phone:	281-732-7595			
U.S. EPA LD. No:	TXD0980625974		~	
State L.D.	RRGEN		SIC Code:	NA
			_	
SECTION 2: Billing	Information - S	lame as Ahove		
Company:	Targa Midstream Ser	vices LP		
	PO Box 10			
City, State, Zip:	Mont Belvieu, TX 7	7580		
Contact:	WORLD DOI VIOL, 171 1	Title:		
Phone No:		Fax No:	****	
I MORE IVO,		A.G.E. I.E.V.		
CROTION 2. Comm	al Basanindan af Aba	Woods.		
SECTION 3: Gener	at Describion of the	Waste		
Name of Wanter Co.	mt Cadium Hudravide	Solution (from CBF Unit)		
			hastine avetem t	for treating light mercaptans in the raw
liquefied petroleum g		ing waste. a CO1 Microx I	icating system	or peating right mercapeans in the raw
udnetten ben bienni 8	as arrearn			
Physical State:	∠ Liquid	Sludge [Powder	
I HYSICAL STACE,	-		=	•
	☐ Solid	Filter Cake] Combinatio	D
				,
Color: <u>dark</u>	. 0	dor: strong		
Specific Gravity (wa	ter=1): <u>1.11</u>	Density: 9.3 [bs/gal	•	
Layers:	Single-phase	☐ Multi-phase		
Container Type:	Drum	☐ Tote 🗵	Truck	Other (explain)
Container Size:			5000gal	
Continuel 2026.	All the same of th		Spooder	who represent the state of the
Frequency:		Monthly	Quarterly	☐ Yearly
Number of Units (co	ntainers): 2	Other:	_	
Texas State Waste C	· —	cyclable Material		
TOTAL DIRIC ALMSTON	ode No.	·		
Proper U.S. DOT SA	ipping Name:	Sodium Hydroxide So	olution	
Class: 8	UN/NA	: UN 1824	PG: II	RQ: NA
~144.00 U	V41/110	L, U.1 1027	T 72. 11	**** NU
Flash Point	рН	Reactive Sulfides	Resctive C	yanides Solids
>150	12	Omg/l	Omg/l	<1%
Oil&Grease	TOC	Zinc	Copper	Nickel
One/I	Cme/	Omg/I	Omg/i	Omg/l

, p.7

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Sodium Hydroxide Solution	98-100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any): acids

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles: Reactivity: Corrosivity:

Ignitability:

SECTION 9: Generator's Certification

The information contained herein is based on 🗵 generator knowledge and/or 🗌 analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Date: 8/20/07 Authorized Signature:

Printed Name/Title: Orval Lewis

CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Date: S27-07 Approved Rejected	Process Facility Information: **Sample EVERY load** Create inbound load report - determine: % Caustic, check density, check pH (should be around 12), make sure thereare NO solids or oil &
Approval Number: 230	grease \$52/gac

<u>SE</u>	CCTION 10: Waste Receipt Classification Under 40 CFR 437	
Is t	this material a wastewater or wastewater sludge? YES NO	·
If '	Yes', complete this section.	
PZ	LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE	NEXT PAGE.
<u>Meta</u>	uls Subcategory: Subpart A	
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters	
	Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations	
H	Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment	
Oils S	Subcategory: Subpart B	
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes	
Organ	nics Subcategory: Subpart C	
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol	
	Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic non-pertuleum sources	

p.9

(1)	If the waste contains oil and grease	at or in excess	of 100 mg/L.	the waste should	be classified in th	ie oils subcategory.
-----	--------------------------------------	-----------------	--------------	------------------	---------------------	----------------------

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess (2) of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or
	nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Metals Subcategory
Oils Subcategory
Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

CES Environmental Services

4904 Griggs Rd

Phone: (713) 676-1460 (713) 676-1676

Houston, TX 77021

Attn:

Dana Carter

- CERTIFICATE OF RESULTS -

MES Lab#:

7060698

Client Sample ID:

Caustic

Extended ID:

Targa

Sample Collect Date: 6/22/2007 @ 5:20:00 PM

Sample Type:

Grab

Sample Receipt Date: 6/25/2007 @ 3:47:00 PM

Test Group / Method

Alkalinity Titrimetric P M OH			·	Analyst: ASB
Method: SM 2320B	MDL	Result	Units	Date / Time
Hydroxyde Alkalinity as CaCO3	1	1520	mg/L CaCO3	7/10/2007 / 9:00 AM

Total Recoverable Metals (RCRA) Method: SW-846 6010B	MDL	Result	Units	Analyst: AM Date / Time
Sodium	0.040	13000	mg/L	7/16/2007 / 10:59 PM

Flags: AH: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Tuesday, July 17, 2007

Holland D. Gilmore, Laboratory Director

Date

Report Date: 17-Jul-07 Page 1 of 1 7060698

MERCURY ENVIRONMENTAL SERVICES QA/QC REPORT

ANALYTE	MB mg/L		LCS %REC	LCSD %REC	RPD	CCB mg/L	CCV %REC	
Sodium	< 0.02	9	97.6	97.8	0.20	< 0.029	95.0	
ANALYTE	MB mg/L	ORIG mg/L	DUP mg/L	STD %REC				
Alkalinity	< 1	1519	1301	106				

Key to QA Abbreviations

MS=Matrix Spike
MSD=Matrix Spike Duplicate
RPD=Relative Percent Deviation
MB=Method Blank
LCS=Laboratory Control Standard
CCV=Continuing Calibration Verification
CCB=Continuing Calibration Blank
%Rec=Percent Recovery

Signature / WW Holland D. Gilmore / Laboratory Director

July 17, 2007

– Mercury Environmental Services, Inc. –

COMPANY NAME: (BILL TO:)

- CHAIN OF CUSTODY

MES

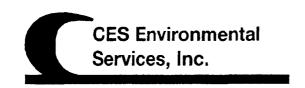
1-800-771-4MES

(281) 476-4534

Services ariags Road

EPAPA001000021

12301 Targa Midstream Service



Waste Pre-Acceptance/Approval Letter

Date 8/22/2007

Dear Orval W Lewis

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2301

Generator: Targa Midstream Services LP

Address: 10319 Hwy 146 North

Mont Belvieu, TX 77580

Waste Information

Name of Waste: Spent sodium hydroxide solution (from CBF unit)

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

A UOP Merox treating system for treating light mercaptans in the raw liquefied petroleu

gas stream

Color: dark

Odor: strong

pH: 12

Physical State:

Incompatibilities: acids

Safety Related Data/Special Handling:

standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener	rator Information			
Company:	Targa Midstream S			
Address:	10319 Hwy 146 No			
City, State, Zip:	Mont Belvieu, TX	77580		
Contact:	Orval Lewis			hnician
Phone No:	281-385-3215		Fax No: 281	-385-3188
24/hr Phone:	281-732-7595			
U.S. EPA LD. No:	TXD0980625974			
State L.D.	RRGEN		SIC Code: NA	
			 	
SECTION 2: Billing	Information - S	ome as Above		
Company:	Targa Midstream Serv	rices LP		
	PO Box 10			
City, State, Zip:	Mont Belvieu, TX 77	580		
Contact:		Title:		· · · · · · · · · · · · · · · · · · ·
Phone No:		Fax No:		
_				
SECTION 3: Gener	al Description of the	Waste		
SECTION DESC.	AT DESCRIPTION DI UND	112310		
Name of Waste: Spe	nt Sodium Hydroxide	Solution (from CBF Unit)		
			ating system for trea	ting light mercaptans in the raw
liquefied petroleum ga			,	
Physical State:	∠ Liquid	☐ Sludge ☐	Powder	
•	☐ Solid	☐ Filter Cake ☐	Combination	•
	☐ 2016		Compination	
Color: dark	Δ.	lor: strong		
COIOI. CALK	V	not: snong		
a 18 a	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	D 10 00 H 1 1		
Specific Gravity (was	ter=1): <u>1.11</u>	Density: 9.3 Ibs/gal		
	_	_		
Layers:	Single-phase	Multi-phase		
Container Type:	☐ Drum	☐ Tote 🗵	Truck	Other (explain)
Container Size:	_		5000gal	_ ` ` ` /

Frequency:		☐ Monthly ☐	Quarterly	Yearly
Number of Units (cor	ntainers): 2	Other:		
Texas State Waste C		yclable Material		
Proper U.S. DOT Shi	ipping Name:	Sodium Hydroxide Solu	tion	
Class: 8	UN/NA	UN 1824	PG: II	RQ: NA
	Q14/242K			
Flash Point	pH	Reactive Sulfides	Reactive Cyanide	s Solids
>150		mg/l	Omg/I	<1%
Oil&Grease	TOC		opper	Nickel
Qmg/i	Omg/l	1	oppei mg/l	Omg/l
☆…R.		_ <u>Zmg/ </u>	mg/1	∠™2/ 1

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Sodium Hydroxide Solution	98-100	%
		<u> </u>

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

SECTION 7: Incompatibilities

Please list all incompatibilities (if any): acids

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

	Dufw. Vi	A / 1
	that the last	Date: 8/20/07
Authorized Signature:	G ~ C	Date: 0(~ 70)

Printed Name/Title: Orval Lewis

CES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Polyham Though Date: 8-27-07 Approved Rejected Approval Number: 230	Process Facility Information: **Sample EVERY load** Create inbound load report - determine: % Caustic, check density, check pH (should be around 12), make sure thereare NO solids or oil & grease \$52494
--	--

QQ1-202-3188

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils sub-	xategory.
---	-----------

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or
	nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Metals Subcategory
Oils Subcategory
Organica Cuboatagory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

CES Environmental Services

4904 Griggs Rd

Houston, TX 77021

Attn:

Dana Carter

- CERTIFICATE OF RESULTS -

MES Lab#:

7060698

Client Sample ID:

Caustic

Extended ID:

Targa

Sample Collect Date: 6/22/2007 @ 5:20:00 PM

Sample Type:

Phone: (713) 676-1460

(713) 676-1676

Grab

Sample Receipt Date: 6/25/2007 @ 3:47:00 PM

Test Group / Method

Analyst: ASB Alkalinity Titrimetric P M OH Date / Time MDL Method: SM 2320B Result

Hydroxyde Alkalinity as CaCO3 mg/L CaCO3 7/10/2007 / 9:00 AM 1520

Total Recoverable Metals (RCRA)

Analyst: AM Method: SW-846 6010B MDL Units Date / Time Result

0.040 7/16/2007 / 10:59 PM Sodium 13000 mg/L

Flags: AH: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Tuesday, July 17, 2007

Holland D. Gilmore, Laboratory Director

Date

Report Date: 17-Jul-07 Page 1 of 1 7060698

MERCURY ENVIRONMENTAL SERVICES QA/QC REPORT

ANALYTE	MB mg/L		LCS %REC	LCSD %REC	RPD	CCB mg/L	CCV %REC	
Sodium	< 0.02	9	97.6	97.8	0.20	< 0.029	95.0	
ANALYTE	MB mg/L	ORIG mg/L	DUP mg/L	STD %REC				
Alkalinity	< 1	1519	1301	106				

Key to QA Abbreviations

MS=Matrix Spike
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RPD=Relative Percent Deviation
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LCS=Laboratory Control Standard
CCV=Continuing Calibration Verification
CCB=Continuing Calibration Blank
%Rec=Percent Recovery

Signature:

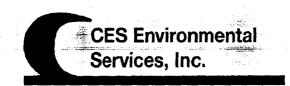
Holland D. Gilmore / Laboratory Director

July 17, 2007

Mercury Environmental Services, Inc.

EPAPA001000030

CONTACT PERSON'S PHONE: 15 10 10 FAX #: 10 VID 10 19 YOUR PROJECT NO: YOUR P.O. 8: YOUR PROJECT NAME: OUT 10 10 19 S S S S S S S S S S S S S S S S S S S	RKS UND TWE
REMAIL STATES FOR ANALYSIS REMAILS	UND TIME L'UNITS S REQUIRED
CONTACT PERSON'S NAME: 13-748-9804 FAX #: 713-676-1676 4 FTRNARO CONTACT PERSON'S PHONE: 13-748-9804 FAX #: 713-676-1676 4 FTRNARO YOUR PROJECT NG: YOUR P.O. 6: YOUR PROJECT NAME: OF SPECIAL LIMIT	LUNITS S REQUIRED
2 YOUR PROJECT NO: YOUR P.O. #: YOUR PROJECT NAME: OUGH PROJECT NO: YOUR P.O. #: DETECTION SPECIAL LIMIT	REQUIRED
PROJECT ADDRESS:	
YOUR SAMPLE DESCRIPTION GRAB/COMP. DATE TIME MATRIX Pease circle please desc	one, if Yes,
or include	separele
Caustic Pab 6/2 5200 X sheet the required	
3 Oric	
Onic	
H	C
	<u> </u>
PERSON TAKING SAMPLE SIGNATURE (a Prim Name & by - Sign.): REPROVED BY: OATE TIME REPROVED BY:	
PERSON TAKING SAMPLE SIGNATURE (a Print Name & by-Sign.): 1 DAY COALLY & DING Realty Son Coally (Signature) 1 DAY COALLY & DING Realty Son Coally (Signature)	
RECEIVED BY: DATE TIME RECEIVED BY: RELINQUISHED BY: OATE TIME RECEIVED BY:	
(Signature) (Signature)	
METHOD OF PAYMENT SHIPPED BY: COURIER RECEIVED FOR MES BY: (Signature) (Signature)	ME
(Signature) (Signature)	
Sample Remainder Dispose Of All Sample Remainders	
Beating Operator December 19 and 19 a	
Return Sample Remainder To Client Viz (Signature) (Signature) (Date)	



4904 Griggs Road

Material / Product Approval Letter

Date 2/21/2008

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2433

Expiration Date 2/21/2010

Producer: CES Environmental Services, Inc.

Address: 4904 Griggs Rd

Houston, TX 77021

Material / Product Information

Name of Material / Product Spent caustic (KOH - Potassium Hydroxide), high c

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Material received from customers

Color: Varies Odor: Sulfur pH: >12.5

Physical State:

Incompatibilities: Strong acids

Safety Related Data/Special Handling:

std PPE (safety glasses, che suit, gloves, goggles)

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676 A STATE OF THE STA

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Materi	al Producer Information					
Company:	CES Environmental Ser	vices, Inc.				
Address :	4904 Griggs Rd 4904 C	Griggs Road				
City, State, Zip :	Houston TX 77021					
Contact:	Matt Bowman	·		Title :		
Phone No:	(713) 676-1460			Fax :		
24 / HR Phone:						
U.S EPA I.D No:	TXD008950461					
State I.D:	30900			SIC Code		
SECTION 2: Billing	Information					
Company:	CES Environmental Ser	vices, Inc.				
Address :	4904 Griggs Rd 4904 G	riggs Road				
City, State, Zip :	Houston TX 77021					
Contact:				Title :		
Phone No:	(713) 676-1460			Fax :		
SECTION 3: Genera	Il Description of the Mater	ial / Product				
Name of Mateiral	/ Product : Spent caustic	c (KOH - Potassiun	n Hydroxide), hiզ	gh concentrati	ion	
Detailed Descript	ion of the Process Gen	erating or Produc	ing the Materia	I / Product:		
Material received f	rom customers					
Physical State :	☑ Liquid	Sludge	Pow	der		
	Solid	Filter Cake	Com	bination		
Color :		Varies	Odor :		Sulfu	r
Specific Gravity (Water=1) :	1.2-1.3	Density :		8.5-9.5	lbs / gal
Dogs this material	contain any total phenolic	compounds?				
	•	•	Yes	✓ No		
Does this material (ontain any para substitute	ea prienolic compol	unds?	Yes	∠ No	
Layers:	✓ Single-Phas	Multi-Phas	e			
Container Type :	Drum 🔳	Tote ✓	Truck	Other (explai	n)	
Container Size :	5000					
Number Of Units	: 1					
Proper U.S. DOT	Shipping Name :	UN1760,	Corrosive liquid	s, n.o.s., 8, P	G II (Potassium Hydro	oxide)
Class: 8	UN/NA :	UN1760	PG	: 11		RQ: 1000

	Flash Point	рН	Reactive Sulfides	Reactive Cyanides	Solids	
	na	>12.5	mg/l	mg/l	<0.5 %	
***	Oil and Grease	TOC	Zinc	Copper	Nickel	. k
	l≕ na mg/l	na mg/l	l ⊸nà⊸ mg/l	na -≛≕ mg/l	na mg/l	.

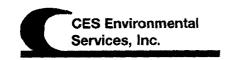
SECTION 4: Physical and Chemical Data

Approval Number:

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following	materials Ranges are acceptable	or %
Potassium hydroxide	20-45	%
water	55-80	%
Potassium carbonate	0-2	%
Potassium chloride	9. 0-2 .	%

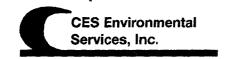
Potassium carbonate Potassium chloride		0-2 0-2	% %
			<u> </u>
SECTION 5: Safety Related Data			
If the handling of this material / product requires t std PPE (safety glasses, che suit, gloves, goggles)	the use of special prote	ective equipment, please explain.	
SECTION 6: Attached Supporting Documents			
List all documents, notes, data, and/or analysis at MSDS	tached to this form as	part of the material / product profile.	. <u>.</u>
SECTION 7: Incompatibilities			
Please list all incompatibilities (if any):			
Strong acids			
SECTION 8: Material Producer's Certification			
The information contained herein is based on above and attached description is complete and a deliberate or willful omissions of composition pro disclosed. I certify that the materials tested are re	ccurate to the best of a perties exist and that a	my knowledge and ability to determinal known or suspected hazards have	ne that no
Authorized Signature :		Date : 2/20/2008	
Printed Name / Title : Gary Lenertz /			
CES USE ONLY (DO NOT WRITE IN THIS SPACE)		Process Facility Informat	tion :
Compliance Officer: Prabhakar Thangudu	ahhmath	nd .	
Date : 2/21/2008 Status : Appro	ved Rejected		

2433



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	CES charge \$ 600.00 in fat
2.	Contamination Limits (maximum limit before surcharges apply):
,	MAX 0.5% Solids MAX Sheen Hydrocarbons
3.	Surcharge Pricing:
	NA
4.	Special Testing Requirements:
	Sie, % Mach(* convert to % KeH) % Solids, U. Suzl
5.	Treatment and Handling Protocol:
	Herp Splitter 1 3 Splitter 2 caustic Seperate until alternate use is approved by director of sales
6.	Treated Wastewater Discharge Subcategory: NA
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable):

Material Safety Data Sheet

WEAK CAUSTIC SOLUTION - S1

SECTION	1	- Chemical Product and Company Identification	
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SECTION 2 - Composition, Information on Ingredients

SECTION 3 - Hazards Identification

SECTION 4 - First Aid Measures

SECTION 5 - Fire Fighting Measures

SECTION 6 - Accidental Release Measures

SECTION 7 - Handling and Storage

SECTION 8 - Exposure Controls and Personal Protection

SECTION 9 - Physical and Chemical Properties

SECTION 10 - Stability and Reactivity

SECTION 11 - Toxicological Information

SECTION 12 - Ecological Information

SECTION 13 - Disposal Considerations

SECTION 14 - Transport Information

SECTION 15 - Regulatory Information

SECTION 16 - Other Information

SECTION 1 - CHEMICAL PRODUCT and COMPANY IDENTIFICATION

1.1 Product Name Weak Caustic Solution
Chemical Family Inorganic Salt Solution

Plant Source Splitter I Unit Formula NA (mixture)

1.2 Manufacturer Enterprise Products Operating LP

10207 FM 1942

Mont Belvieu TX 77580

281-385-4200

1.3 Emergency Contact Matt Bowman 713-826-1329

CHEMTREC 800-424-9300

SECTION 2 - COMPOSITION and INFORMATION ON INGREDIENTS

2.1 Chemical Ingredients (% by wt)

Typical Analysis

Sodium Sulfide (Na2S) CAS#: 1313-82-2 0-1%Sodium Hydroxide (NaOH) CAS#: 1310-73-2 0-15% Typical 6 to 7%

Sodium Chloride CAS# 7647-14-50 0 - 7% Sodium Carbonate (Na2CO3) CAS#: 497-19-8 0 - 4% Potassium Hydroxide (KOH) CAS# 1310-58-3 0 - 10% remaining %

FOR ADDITIONAL INFORMATION SEE SECTION 9

MSDS Weak Caustic Solution - S1

SECTION 3 - HAZARDS IDENTIFICATION

NFPA:

Health – 3

Flammability – 0

Reactivity - 1

EMERGENCY OVERVIEW

Warning: Solution is highly alkaline.

May evolve small amounts of hydrogen sulfide, a highly toxic gas. EYE contact will cause marked eye irritation and possible corneal damage. SKIN contact will result in irritation and possible corrosion of the skin. INGESTION will irritate and burn the mouth, throat and the gastrointestinal tract; contact with stomach acid will cause hydrogen sulfide vapors to be released. HEATING or ACID contact will cause hydrogen sulfide gas to evolve.

3.1 POTENTIAL HEALTH EFFECTS

EYE: Contact with the eyes will cause marked eye irritation and possibly severe corneal damage.

SKIN CONTACT: Contact with the skin will cause skin irritation or a burning sensation. Prolonged contact will result in corrosion of the skin.

SKIN ABSORPTION: Absorption is unlikely to occur.

INGESTION: Ingestion will result in severe burning and corrosion of mouth, throat and the gastrointestinal tract. If the ingested material contacts stomach acid, highly toxic hydrogen sulfide gas will be evolved.

INHALATION: Product solution and vapors contain some highly toxic hydrogen sulfide gas. Exposure to this gas causes headaches, nausea, dizziness and vomiting. Continued exposure can lead to loss of consciousness and death.

CHRONIC EFFECTS – CARCINOGENICITY: Not listed as a carcinogen by NTP, IARC or OSHA.

SECTION 4 - FIRST AID MEASURES

- 4.1 **EYES:** Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to insure thorough flushing of the entire area of the eye. Obtain immediate medication.
- 4.2 **SKIN:** Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Obtain immediate medical attention.
- 4.3 **INGESTION:** DO NOT INDUCE VOMITING. If victim is conscious, immediately give 2 to 4 glasses of water. If vomiting does occur, repeat fluid administration. Obtain immediate medical attention.
- 4.4 **INHALATION:** Remove victim form contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start mouth to mouth resuscitation. If heart has stopped beating, external heart massage should be applied. Obtain immediate medical attention.

MSDS Weak Caustic Solution - S1

SECTION 5 - FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

FLASH POINT: Not Flammable

METHOD USED: NA

5.2 FLAMMABLE LIMITS: Hydrogen Sulfide

LFL: 4%

UFL: 44%

5.3 EXTINGUISHING MEDIA: Water spray or foam or as appropriate for combustion involved in fire.

- 5.4 FIRE and EXPLOSIVE HAZARDS: Solution is non-flammable. However if these solutions are exposed to heat or acids, hydrogen sulfide will be released and may form explosive mixtures with air (see above). Keep containers and/or storage vessels in fire area cooled with water spray. Heating may cause the release of hydrogen sulfide vapors.
- 5.5 FIRE FIGHTING EQUIPMENT: Because of the possible presence of toxic gases and the corrosive nature of the product, wear self-contained breathing apparatus, positive pressure, MSHA / NIOSH (approved or equivalent) and full protective gear.

SECTION 6 - ACCIDENTIAL RELEASE MEASURES

- 6.1 SMALL RELEASES: Isolate for 75 feet. Confine area to qualified response personnel. Wear proper Personnel Protective equipment (See Section 8). Confine release material by berming or diverting its path Absorb on sand, earth or other inert dry absorbent. Do not allow into sewer, storm drains or any waterway. Oxidize residual reactive sulfides with a weak (3-5%) hydrogen peroxide solution to stop the release of toxic hydrogen sulfide. Remove contaminated soil and dispose of in accordance with all governmental regulations.
- 6.2 LARGE RELEASES: Activate Emergency Response Plan procedures. Isolate release area for 500 feet. Confine area to qualified response personnel. Wear proper Personnel Protective Equipment (See Section 8). Shut off release, if safe to do so. Dike spill area to prevent runoff into sewers, drains (potential toxic and explosive mixtures of hydrogen sulfide in confined spaces) or surface waterways (potential aquatic toxicity). Recover as much of the solution as possible. Treat remaining material as a small release (See 6.1).

SECTION 7 - HANDLING and STORAGE

- 7.1 HANDLING: Wear proper protective equipment (See Section 8). Avoid breathing product vapors. Avoid contact with skin and eyes. Use only in a well ventilated area. Dilute product only in enclosed containers. Wash thoroughly after handling.
- 7.2 STORAGE: Store in well ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store tote and smaller containers out of direct sunlight at moderate temperatures [<80 F (27 C)]. (See Section 10.4 for materials of construction)

MSDS Weak Caustic Solution - S1

SECTION 8 - EXPOSURE CONTROLS and PERSONAL PROTECTION

- 8.1 RESPIRATORY PROTECTION: If working near open container or storage vessel opening or open tank truck dome cover and, the concentration of sodium sulfide is greater than 500 ppm have available self-contained breathing apparatus, positive pressure, MSHA / NIOSH (approved or equivalent). For concentrations of sodium sulfide below 500 ppm, this does not require the use of a self-contained breathing apparatus. For concentrations below 500 ppm one should have available a respirator with a cartridge rated for hydrogen sulfide.
- 8.2 SKIN PROTECTION: Neoprene rubber gloves, chemical suit and boots should be worn to prevent contact with the liquid. Wash contaminated clothing prior to reuse. Contaminated leather shoes cannot be cleaned and should be discarded.

STEL

8.3 EYE PROTECTION: Chemical goggles and a full face shield.

8.4 EXPOSURE GUIDELINES:

OSHA

TWA

ACGIH

Hydrogen Sulfide

20 ppm (ceiling)

TLV STEL 10 ppm (ceiling)

8.5 ENGINEERING CONTROLS: Use adequate exhaust ventilation to prevent inhalation of product vapors. Where feasible scrub process or storage vessel vapors with caustic solution. Maintain eye wash safety shower in areas where chemical is handled.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

- 9.1 APPEARANCE:
- 9.2 ODOR: Hydrocarbon (mercaptan), possibly hydrogen sulfide (rotten egg) odor. Sulfides Less than 100 ppm (Typical 10 to 50 ppm)
- 9.3 BOILING POINT: Not Determined
- 9.4 TOC: Typical 15,000 to 30,000 ppm
- 9.5 OIL and Grease: Typical 20 to 40 ppm
- 9.6 VAPOR DENSITY: (Air = 1.0) 1.17
- 9.7 SOLUBILITY IN WATER: Complete
- 9.8 SPECIFIC GRAVITY: 1.03 1.3 (8.59 10.83 lbs/gal)
- 9.9 pH: 11.5 13.5
- 9.10 CHLORIDES: Less than 60,000 ppm

SECTION 10 - STABILITY and REACTIVITY

- 10.1 STABILITY: This is a stable material.
- 10.2 HAZARDOUS POLYMERIZATION: Will not occur.

MSDS Weak Caustic Solution - S1

- 10.3 HAZARDOUS DECOMPOSITION PRODUCTS: Heating product will evolve H2S gas. fire conditions will cause the production of sulfur dioxide. Hydrogen sulfide (4 44%) may form flammable mixtures with air.
- 10.4 INCOMPATIBILITY: Acids will cause the release of highly toxic hydrogen sulfide. Sulfidic caustic solution is not compatible with copper, zinc, aluminum or their alloys (i.e. bronze, brass, galvanized metals, etc.). Corrosive to steel above 150 F (65.5 C). These materials of

SECTION 10 - STABILITY and REACTIVITY (Continued)

construction should not be used in handling systems or storage containers for this product. (See Section 7.2 Storage)

SECTION 11 - TOXICOLOGICAL INFORMATION

- 11.1 ORAL: Data not available.
- 11.2 DERMAL: Data not available.
- 11.3 INHALATION: INH-RAT LC 50: 444 ppm (hydrogen sulfide)
- 11.4 CHRONIC and CARCINOGENICITY: No evidence available.
- 11.5 TERATOLOGY: Data not available.
- 11.6 REPRODUCTION: Data not available.
- 11.7 MUTAGENICITY: Data not available.

SECTION 12 - ECOLOGICAL INFORMATION

None Available

SECTION 13 – DISPOSAL CONSIDERATIONS

If released to the environment for other than its intended purpose, this product contains some reactive sulfides but not a sufficient quantity to meet the definition of a D003, hazardous waste. The pH may be high enough to meet the definition of a corrosive waste, D002.

SECTION 14 - TRANSPORT INFORMATION

- 14.1 DOT SHIPPING NAME: Corrosive liquids, n.o.s.
- 14.2 DOT HAZARD CLASS: 8
- 14.3 UN/NA NUMBER: UN1760
- 14.4 PACKING GROUP: II
- 14.5 DOT PLACARD: Corrosive

MSDS Weak Caustic Solution - S1

- 14.6 DOT LABLE(s): Corrosive
- 14.7 IMO SHIPPING NAME. Sodium Hydroxide Solution
- 14.8 RQ (REPORTABLE QUANTITY): 1,000 lbs (454 Kg) 100% basis (Approx. 538 gals)
- 14.9 USCG BARGE CERTIFICATION: SSH (sodium sulfide, hydrosulfide solutions, H2S 15 ppm or less). SSI (sodium sulfide, hydrosulfide solutions, H2S greater than 15 ppm but less than 200 ppm).

SECTION 15 - REGULATORY INFORMATION

- 15.1 OSHA: This product is listed as a hazardous material under criteria of the Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- 15.2 SARA TITLE III. a. EHS (Extremely Hazardous Substance) List:
 - b. Sections 311 and 312 (Tier I, II) Categories:

Immediate (acute) Yes
Fire No
Sudden Release No
Reactivity Yes
Delayed (chronic) No

- c. Section 313 (Toxic Release Report-Form R): No
- d. TPQ (Threshold Planning Quantity): No
- 15.3 CERCLA and SUPERFUND: RQ (Reportable Quantity) 1,000 lbs
- 15.4 TSCA (Toxic Substance Control Act) Inventory List: Yes
- 15.5 RCRA (Resource Conservation and Recovery Act) Status: Yes
- 15.6 WHMIS (Canada) Hazard Classification: E, D1
- 15.7 DOT HAZARDOUS MATERIAL: (See Section 14) Yes
- 15.8 CAA HAZARDOUS AIR POLLUTANT (HAP): No

SECTION 16 – OTHER INFORMATION

REVISIONS: The entire MSDS was reformatted to comply to ANSI Standard Z400.1-1993.

THE INFORMATION PUBLISHED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN COMPILED FROM OUR EXPERIENCE AND OSHA, ANSI, NFPA, DOT, ERG AND CHRIS. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF NECESSAREY SAFETY PRECAUTIONS. WE RESERVE THE RIGHT TO REVISE THE MATERIAL SAFETY DATA SHEET PERIODICALLY AS NEW INFORMATION BECOMES AVAILABLE.

MSDS Weak Caustic Solution – S1



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 10/31/2007

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile# 2497

Producer: CES Environmental Services, Inc.

Address: 4904 Griggs Rd

Houston, TX 77021

Material / Product Information

Name of Material / Product CES Fuel

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Accumulation of off-spec fuels from various customers

Accumulation of our spec facts from various customers

Color: Clear to brown Odor: Hydrocarbon

pH: na

Physical State:

Incompatibilities: see MSDS

Safety Related Data/Special Handling:

see MSDS

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Materi	ial Producer Infor	mation					
Company :	CES Environme	ental Services, In	c.				
Address :	4904 Griggs Rd	4904 Griggs Ro	oad				
City, State, Zip:	Houston TX 770)21					
Contact :	Matt Bowman				Γitle :		
Phone No :	(713) 676-1460				ax:		
24 / HR Phone :							
U.S EPA I.D No:	na						
State I.D:	na				SIC Code na		
SECTION 2: Billing	Information						
Company:	CES Environme	ntal Services, Inc) .				
Address :	4904 Griggs Rd	4904 Griggs Ro	ad				
City, State, Zip:	Houston TX 770	21					
Contact :				7	itle :		
Phone No:	(713) 676-1460			F	ax:		
SECTION 3: Genera			uct				
Name of Mateiral	/ Product :CES	Fuel					
Detailed Descript	ion of the Proce	ss Generating of	or Producing	the Material	/ Product:		
Accumulation of of	f-spec fuels from	various custome	ers				
Physical State :	✓ Liquid	s S	ludge	Powe	ier		
	Solid	S Fi	ilter Cake	Com!	oination		
Color :		Clear to bro	own	Odor :		Hydrocarbon	
Specific Gravity (\	Water=1) :	0.7-0.9		Density :		7-8	lbs / gal
Layers :	✓ Single-P	has 🏾 M	ulti-Phase				-
Container Type :	Drum	Tote	Tru-	ck 🕅 O	ther (explain)		
••	<u> </u>	1000		,	dici (explain)	***************************************	·····
Container Size :		•			 		
Number Of Units :		-					
Proper U.S. DOT S	Shipping Name :		Fla	ammable Liq	uids, n.o.s., UN 1993	3, PG II	
Class :3		JN/NA : <u>U</u> N	1943	PG:	<u>II</u>	RQ:	100
Flash Point		рН	Reactive	Sulfides	Recetivelyan	ides Solid	ls
<140		na	0	m9/L	, , , , , , , , , , , , , , , , , , , ,	9/40	<u></u> %
Oil and Greas	ie	TOC	Zir	c	Copper	Nick	el
na	mg/l	na mg/l			0	mg/l 0	mg/l

SECTION 4: Physical and Chemical Data

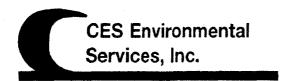
COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
see attached MSDS		
ECTION 5: Safety Related Data		
the handling of this material / product requires the use of special protective ee MSDS	e equipment, please explain.	
ECTION 6: Attached Supporting Documents		
st all documents, notes, data, and/or analysis attached to this form as part and specific spe	of the material / product profile.	
CCTION 7: Incompatibilities		
ease list all incompatibilities (if any): e MSDS		
ease list all incompatibilities (if any): e MSDS CTION 8: Material Producer's Certification e information contained herein is based on generator knowledge and/cove and attached description is complete and accurate to the best of my kribberate or willful omissions of composition properties exist and that all knowledge.	nowledge and ability to determine to own or suspected hazards have be	hat no
ease list all incompatibilities (if any): e MSDS CTION 8: Material Producer's Certification e information contained herein is based on generator knowledge and/cove and attached description is complete and accurate to the best of my kriberate or willful omissions of composition properties exist and that all knowledge. I certify that the materials tested are representative of all materials	nowledge and ability to determine to own or suspected hazards have be	hat no
ease list all incompatibilities (if any):	nowledge and ability to determine to own or suspected hazards have be described by this document.	hat no

(Rhodia	
Wiodia .	Profile #
X BATON ROUGE X HOUSTON X BAYTOW	
Material Profile Data Sheet	t Sales Person
A. General Information	
	SHIPPING FACILITY
Contact Matt Bowman	Contact Matt Bowman
Customer Name CES Environmental Services, Inc.	Shipper Name CES Environmental Services, Inc.
Address 4904 Griggs Road City Houston	Address 4904 Griggs Road City Houston
City Houston State TX Zip 77021	State TX Zip 77021
Phone # 713-676-1460 Fax # 713-676-1676	Phone # 713-676-1460 Fax # 713-676-1676
USEPA ID#	USEPA ID#
E-Mail Address mbowman@cesenvironmental.com	E-Mail Address mbowman@cesenvironmental.com
	State Gen. ID No.
B. Waste Description Waste Name	CES Fuel
at the poor bear the same	
Source Code G Form Code W Is a	representative sample provided? X Yes No
Process Description: Accumulation of off-spec fuels	
Extinguish w/ Carbon Dioxide, Dry Chem., Foam. F. RCRA Information Is this a USEPA hazardous waste? Yes X No	ques are required, such as spills, fire response, etc.: Use SCBA. Cool surroundings with water spray.
Extinguish w/ Carbon Dioxide, Dry Chem., Foam. RCRA Information Is this a USEPA hazardous waste? Is this an acutely hazardous waste (40 CFR 261.31 and 33)	ques are required, such as spills, fire response, etc.: Use SCBA. Cool surroundings with water spray. Yes X No
E. Handling Instructions If special handling techniq Extinguish w/ Carbon Dioxide, Dry Chem., Foam. F. RCRA Information Is this a USEPA hazardous waste? Yes X No	ques are required, such as spills, fire response, etc.: Use SCBA. Cool surroundings with water spray. Yes X No
E. Handling Instructions Extinguish w/ Carbon Dioxide, Dry Chem., Foam. F. RCRA Information Is this a USEPA hazardous waste? Is this an acutely hazardous waste (40 CFR 261.31 and 33) List the USEPA hazardous waste codes, Specify the nature of any Regulated Medical / Infectious waste	y D003 waste in section H 1: CERCLA Regulated (Superfund) Waste
Extinguish w/ Carbon Dioxide, Dry Chem., Foam. RCRA Information Is this a USEPA hazardous waste? Is this an acutely hazardous waste (40 CFR 261.31 and 33) List the USEPA hazardous waste codes, Specify the nature of any Regulated Medical / Infectious waste Regulated Subpart CC Waste (VOC's ≥ 500 ppm by wt.)	y D003 waste in section H 1: CERCLA Regulated (Superfund) Waste Spent Solvent
Extinguish w/ Carbon Dioxide, Dry Chem., Foam. RCRA Information Is this a USEPA hazardous waste? Is this an acutely hazardous waste (40 CFR 261.31 and 33) List the USEPA hazardous waste codes, Specify the nature of any Regulated Medical / Infectious waste	y D003 waste in section H 1: CERCLA Regulated (Superfund) Waste Spent Solvent
E. Handling Instructions Extinguish w/ Carbon Dioxide, Dry Chem., Foam. F. RCRA Information Is this a USEPA hazardous waste? Is this an acutely hazardous waste (40 CFR 261.31 and 33) List the USEPA hazardous waste codes, Specify the nature of any Regulated Medical / Infectious waste Regulated Subpart CC Waste (VOC's ≥ 500 ppm by wt.)	y D003 waste in section H 1: CERCLA Regulated (Superfund) Waste Spent Solvent
E. Handling Instructions Extinguish w/ Carbon Dioxide, Dry Chem., Foam. F. RCRA Information Is this a USEPA hazardous waste? Is this an acutely hazardous waste (40 CFR 261.31 and 33) List the USEPA hazardous waste codes, Specify the nature of any Regulated Medical / Infectious waste Regulated Subpart CC Waste (VOC's ≥ 500 ppm by wt.) Hazardous Debris (Subject to alternative LDR treatment standard the codes or other state designations:	y D003 waste in section H 1: CERCLA Regulated (Superfund) Waste Spent Solvent X Exempt Waste (list reference in 40 CFR)
Extinguish w/ Carbon Dioxide, Dry Chem., Foam. F. RCRA Information Is this a USEPA hazardous waste? Yes X No Is this an acutely hazardous waste (40 CFR 261.31 and 33) List the USEPA hazardous waste codes, Specify the nature of any Regulated Medical / Infectious waste Regulated Subpart CC Waste (VOC's ≥ 500 ppm by wt.) Hazardous Debris (Subject to alternative LDR treatment standard the codes or other state designations:	y D003 waste in section H 1: CERCLA Regulated (Superfund) Waste Spent Solvent X Exempt Waste (list reference in 40 CFR)
Extinguish w/ Carbon Dioxide, Dry Chem., Foam. RCRA Information Is this a USEPA hazardous waste? Is this an acutely hazardous waste (40 CFR 261.31 and 33) List the USEPA hazardous waste codes, Specify the nature of any Regulated Medical / Infectious waste Regulated Subpart CC Waste (VOC's ≥ 500 ppm by wt.) Hazardous Debris (Subject to alternative LDR treatment standard State Waste Codes or other state designations: Shipping Information DOT PROPER SHIPPING DESCRIPTION	y Doos waste in section H 1: CERCLA Regulated (Superfund) Waste Spent Solvent X Exempt Waste (list reference in 40 CFR) None
E. Handling Instructions Extinguish w/ Carbon Dioxide, Dry Chem., Foam. F. RCRA Information Is this a USEPA hazardous waste? Is this an acutely hazardous waste (40 CFR 261.31 and 33) List the USEPA hazardous waste codes, Specify the nature of any Regulated Medical / Infectious waste Regulated Subpart CC Waste (VOC's ≥ 500 ppm by wt.) Hazardous Debris (Subject to alternative LDR treatment standard test any State Waste Codes or other state designations: Shipping Information DOT PROPER SHIPPING DESCRIPTION Technical N.O.S. descriptions Petrole	y Doos waste in section H 1: CERCLA Regulated (Superfund) Waste Spent Solvent X Exempt Waste (list reference in 40 CFR) None Flammable Liquid, N.O.S.
E. Handling Instructions Extinguish w/ Carbon Dioxide, Dry Chem., Foam. F. RCRA Information Is this a USEPA hazardous waste? Is this an acutely hazardous waste (40 CFR 261.31 and 33) List the USEPA hazardous waste codes, Specify the nature of any Regulated Medical / Infectious waste Regulated Subpart CC Waste (VOC's ≥ 500 ppm by wt.) Hazardous Debris (Subject to alternative LDR treatment standard test any State Waste Codes or other state designations: S. Shipping Information DOT PROPER SHIPPING DESCRIPTION Technical N.O.S. descriptions Petrole	ques are required, such as spills, fire response, etc.: Use SCBA. Cool surroundings with water spray. Yes X No y D003 waste in section H 1: CERCLA Regulated (Superfund) Waste Spent Solvent X Exempt Waste (list reference in 40 CFR) None Flammable Liquid, N.O.S. Eum Distillates ERG # 128
E. Handling Instructions Extinguish w/ Carbon Dioxide, Dry Chem., Foam. F. RCRA Information Is this a USEPA hazardous waste? Is this an acutely hazardous waste (40 CFR 261.31 and 33) List the USEPA hazardous waste codes, Specify the nature of any Regulated Medical / Infectious waste Regulated Subpart CC Waste (VOC's ≥ 500 ppm by wt.) Hazardous Debris (Subject to alternative LDR treatment standardous Debris (Subject to alternative LDR tre	y D003 waste in section H 1: CERCLA Regulated (Superfund) Waste Spent Solvent Exempt Waste (list reference in 40 CFR) None Flammable Liquid, N.O.S. Seum Distillates ERG # 128 UN11993 Packing Group II RQ 100 CONTAINER TYPE
E. Handling Instructions Extinguish w/ Carbon Dioxide, Dry Chem., Foam. F. RCRA Information Is this a USEPA hazardous waste? Is this an acutely hazardous waste (40 CFR 261.31 and 33) List the USEPA hazardous waste codes, Specify the nature of any Regulated Medical / Infectious waste Regulated Subpart CC Waste (VOC's ≥ 500 ppm by wt.) Hazardous Debris (Subject to alternative LDR treatment standardous Debris (Subject to alternative LDR tre	y D003 waste in section H 1: CERCLA Regulated (Superfund) Waste Spent Solvent Exempt Waste (list reference in 40 CFR) None None None None None

Rhodia	Profile #
KEY SAFETY INFORMATION	
Primary Health Hazard: X Inhalation X Skin Contac	ct X Ingestion
Do you open dome to sample or load?	□ No
Do you open dome to sample or load? X Yes	No
How do you minimize vapor exposure?	
First Aid:	
Type of Gloves Used: Nitrile Neoprene Rubber PVC	Butyl Other
Type of Body Protection:	
	cid resistant slicker suit Other:
_ist all: Chronic Health Hazards	
THO HE HEALT HAZARAS	
Acute Heath Hazards	
REGULATORY INFORMATION	OSHA Chemicals: Please check all that apply and
	list the concentration ranges
xempted from RCRA? X Yes No	
	Vinyl chloride monomer Range
exempted from RCRA, indicate basis:	(VCM)
pent sulfuric acid used to produce virgin sulfuric acid per 40 CFR261.4(a)(7) ised as an ingredient to make sulfuric acid per 40 CFR 261.2(e)(1)(l)) Benzene
please provide analytical information or justification)	Formaldehyde
	Others
	List
ANDLING INFORMATION	
the material soluble in: Water X Solvent	
solvent, what type?	
an material pass through a 20 mesh screen?	No
ow do you clear lines? N ₂ Steam	Solvent Water Other
·	tainless steel Grade: Other
ump Seal? Single, Double, Flush Plan, Face	
peline Materials? Carbon Steel St	tainless steel Grade: Other
	tainless steel Grade: OtherOther
emperature Limits? Max: Min:	Re-Heat Issues:
st any compatibility problems:	
ENERATOR PROFILE CERTIFICATION	
	warrant on baball of the Consister that the
ereby certify that I am an authorized agent of the Generator, and vormation supplied on this form and on any attachments or supplier	
it all known or suspected hazardsof the material(s) described here	·
,	
att Bowman (President) 8-2-07	Tratt Down
ne & Title (Printed or Typed) Date	Constitution

					Profile	#			
(1) Hazardous Characteristic	s and Other Compor	nents-	Section mus	t be compl	eted.				
Fuming/Smoking Waste	Water Reactive		Acid Reactive	(3)Met	als	7	Γotal	Totai	TC
Dioxins & Furans	Air Reactive		Alkaline Reacti				nimum	(ppm)	(mg
Ozone Depletion 40 CFR 82	Explosive	†	Polymerizable				tection	(66)	,s
Chlorine %	Radioactive	 	Inorganic			i	_imit		
Bromine %	Biological		Aqueous	Arsenic (As)		1.30	ppm		
lodine %	Shock Sensitive		Peroxides	Thallium (TI)		1.44	ppm		
Fluorineppm	Asbestos	Х	Ignitable	Silver (Ag)		0.20	ppm		
Cyanidesppm	Affected Benzene	Waste	_	Barium (Ba)		0.005	ppm		
Sulfidesppm	Controlled Benzen		e	Beryllium (B	-	0.01	ppm		
Phenolics ppm	40 CFR 61 Subpa	rt FF		Chromium (•	0.08	ppm		
PCBppm	Oxidizer			Antimony (S	b)	0.85	ppm		
(4. (2) Physical Characteristic				Lead (Pb)	۵۱	0.47	ppm		
ot (2) Physical Characteristic pply N	cs Ainimum Maximum	Actu	al	Cadmium (C Mercury (Hg		0.05 0.01	ppm ppm		
Ash (%)	maximum maximum	Actu	a.ı	Selenium (S		5.20	ppm		
Phosphate (mg/l)				Nickel (Ni)	٠,	1.01	ppm		
Potassium (mg/l)				Cobalt (Co)		0.355	ppm		
Sodium (mg/l)		***************************************		Manganese (Mn)	0.03	ppm		
Water (%)				lolybdenum (0.417	ppm		
Sulfur (%)				Vanadium (\		0.091	ppm		
Specific Gravity	0.75 0.85	0.8	32	Zinc (Zn)	,	0.185	ppm		
Viscosity (centipoise)				Copper (Cu)		0.526	ppm		
PHconstituent				Chromium (0.007	ppm		
BTUs (1000/lb)				Aluminum (A	•	0.05	ppm		
Flash Point (closed cup°F)	75 100	80	0	Titanium (Ti	•	0.05	ppm		
<u> </u>			l certify metals				X	Yes	
			by knowledge o				<u> </u>	No	
) Chemical Composition (If a	ctual percentages are not l	known, ι				00%.	<u> </u>		
		compo	sition listed se	narately la a	, Toulen	e, benz	zene)		
Constituents must be specificall						_		- 1	
l Constituents must be specificall	y identified and physical Minimum	•	Maximum	Avg/Ac	tual	C	AS Nun		
I Constituents must be specifically HC Xylene		_%	Maximum 30	Avg/Ac	tual %		AS Nun 106-42	-3	
Constituents must be specifically HC Xylene Heptane		_%	Maximum 30 30	Avg/Ac - 5 - 5	tuai % %		AS Nun 106-42 142-82	-3 -5	
Constituents must be specifically HC Xylene Heptane Hexane		_% _% _%	Maximum 30 30 30	Avg/Ac - 5 - 5 - 5	tual % %		AS Nun 106-42 142-82 110-54	-3 -5 -3	
Constituents must be specifically HC Xylene Heptane Hexane Ethyl Benzene		_% _% _% %	30 30 30 30 30 30	Avg/Ac - 5 - 5 - 5 - 5	tual % % %		AS Nun 106-42 142-82 110-54 100-41	-3 -5 -3 -4	
I Constituents must be specifically HC Xylene Heptane Hexane Ethyl Benzene Toluene		_% _% _% %	30 30 30 30 30 30	Avg/Ac - 5 - 5 - 5 - 5 - 5 - 5	tual	C.	106-42 142-82 110-54 100-41 108-88	-3 -5 -3 -4	
I Constituents must be specifically HC Xylene Heptane Hexane Ethyl Benzene Toluene Methanol		_% _% _% _% %	30 30 30 30 30 30 30 30	Avg/Ac - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	tual	C.	106-42 142-82 110-54 100-41 108-88 67-56-	-3 -5 -3 -4 -3 -1	
I Constituents must be specifically HC Xylene Heptane Hexane Ethyl Benzene Toluene Methanol Butanol	Minimum	_% _% _% _% _% %	30 30 30 30 30 30 30 30 30	Avg/Ac - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	tual	c.	106-42 142-82 110-54 100-41 108-88 67-56- 71-36-	-3 -5 -3 -4 -3 -1 -3	
I Constituents must be specifically HC Xylene Heptane Hexane Ethyl Benzene Toluene Methanol Butanol Propanol		_% _% _% _% _% % %	30 30 30 30 30 30 30 30 30 30	Avg/Ac - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	tual	C.	106-42 142-82 110-54 100-41 108-88 67-56- 71-36- 71-23	-3 -5 -3 -4 -3 -1 -3 -8	
I Constituents must be specifically HC Xylene Heptane Hexane Ethyl Benzene Toluene Methanol Butanol	Minimum	_% _% _% _% _% %	30 30 30 30 30 30 30 30 30	Avg/Ac - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	tual		106-42 142-82 110-54 100-41 108-88 67-56- 71-36-	-3 -5 -3 -4 -3 -1 -3 -8 -5	

PA-2598



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 1/22/2008

Dear Roy Hebert

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile# 2598

Expiration Date 1/22/2010

Generator: Enterprise Products Operating, L.P. - Port Allen

Address: 2220 North River Rd.

Port Allen, LA 70767

Waste Information

Name of Waste: Spent potassium hydroxide.

TCEQ Waste Code #: OUTS106H

Container Type:

Detailed Description of Process Generating Waste:

Sweetening natural gas liquid before running the merox process. The natural gas liquid i fractionated to remove C4 and lower. C5 and higher are run through the merox process.

Color: Dark

Odor: Ammonia

pH: 12-14

Physical State:

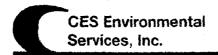
Incompatibilities: Acids

Safety Related Data/Special Handling: Std PPE for high pH materials w/sulfides

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	erator Information						
Company:		Enterprise Products Operating, LP - Port Allen					
Address:	2220 North River Rd.						
City, State, Zip:	Port Allen, LA 7						
Contact:	Roy Hebert	<u></u>	Title:	Field Environmental Scientist			
Phone No:	225-381-3459		Fax No:	225-381-3476			
24/hr Phone:	225-381-3459						
U.S. EPA I.D. No:	LAR000033100		*****				
State I.D.	G-121-10915	D0022	SIC Code:	NA			
SECTION 2: Billin Company: Address:	g Information - 🛛	Same as Above					
City, State, Zip:							
Contact:		Title:					
Phone No:		Fax N	0:				
Name of Waste: Sp Detailed Description Processing The Aust Physical State:			ntime gas remove C4 Powder Combinatio	lynd before rooming the mergy and lower. C5 and higher are run through the merex process.			
Color: <u>Dark</u>		Odor: <u>Ammonia</u>					
Specific Gravity (wa	iter=1): <u>1.203</u>	Density: <u>10.03</u> lbs/g	al				
Layers:	Single-phase	☐ Multi-phas	Se .				
Containar Tunas	☐ Drum	Tote		Other (explain)			
Container Type:	Diam	1000		Other (explain)			
Container Size:		*****	<u>4000</u>				
Frequency:	☐ Weekly	Monthly	Quarterly	☐ Yearly			
Number of Units (co		•	<u> </u>	FOR RECYCLE			
		Other:		FIR KEYEL			
Texas State Waste C	ode No: Outsi	06H	D002, D	004			
Proper U.S. DOT Sh	ipping Name:	Waste corrosive	iquids, n.o.s. (potass	sium hydroxide)			
Class: 8	UN/N	A: UN1760	PG: II	RQ: 1000			
	0.411						
Flash Point	pH	Reactive Sulfides	Reactive C				
<u>>150</u>	12-14	NAmg/I	NAmg/I	0-2%			
Oil&Grease	TOC	Zinc	Copper	Nickel			
NAmg/I	NAmg/I	NAmg/I	NAmg/I	NAmg/I			

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	75-80	%
Potassium Hydroxide	20-25	%
Carbon	1-2	%
	ļ	1

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Standard PPE for high pH materials w/ sulfides

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>X</u>
TCLP Volatiles:	X
TCLP Semi-Volatiles:	<u>X</u>
Reactivity:	<u>X</u>
Corrosivity:	X
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on generator knowledge and/or analytical data. I hereby certify that the above an attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materia tested are representative of all praterials described by this document.

Authorized Signature:

Date: 121-08

CES USE ONLY (DO NOT WRITE IN T	IHS SPACE)
Compliance Officer: Polile	milland.
Date: 1-22-08	Approved Rejected
Approval Number: 25	98

Printed Name/Title: Rory Hebert/Field Environmental Scientist

OK to mix with Deridde? Count 6719! Any hydrocarbons on top of load put into hydrocarbon mixture totes. To QC: Sp Gr., % suspended solids, pH, and a visual for oil and grease (no oil or grease allowed). Also determine the % caustic by either titration to pH 4 or by using Sp. Gr., and the "handy math calculation" - see shared drive. Sulfides must be low. QC - If solids < .75% & caustic >7% (by Sp.Gr.; 5% by titration), load in De Ridder trlr. If there are no De Ridder trlrs, load into De Ridder frac tank. If solids < .75%

tighter filter before putting in RO tank (add for solids > .75% + trucking + FSC.

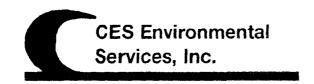
5	SECTION 10: Waste Receipt Classification Under 40 CFR 437
i	s th is material a wastewater or wastewater sludge? YES NO
I	f 'Y'es', complete this section.
,	PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Me</u>	tals Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
<u>Oils</u>	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
Orga	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes
	Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean out from organic, non petroleum sources

(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in exces of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0:2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L

	Nicke	1: 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, o above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Matt Bowman Cc: Gary Lenertz

Date: 01/17/08

From: Miles Root

Lab Memo: 08-008

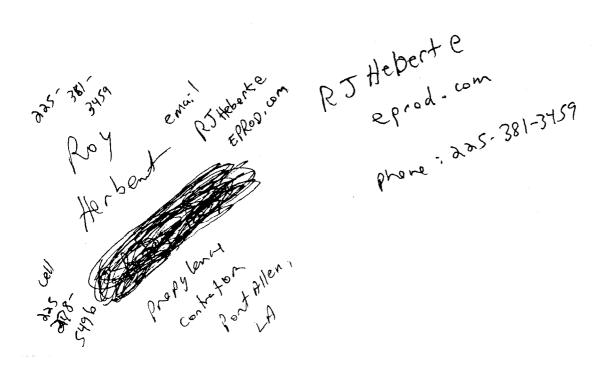
Subject: Enterprise KOH Stream - Sample Evaluation 0108-35

A sample of potassium hydroxide from Enterprise Products, Port Allen. LA has been evaluated as a potential sale to Deridder. The sample is dark from suspended particulates, but contains no oils by centrifuge. Solids by centrifuge are approximately 1.5 vol%. The sample also has an odor of ammonia. The KOH concentration was determined by titration to pH 7.0 with the MW of 56 used instead of the 40 as used for NaOH samples.

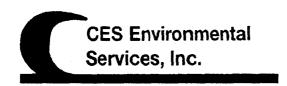
A summary of the test results follows:

Specific Gravity – 1.203 @ 15.5 deg C KOH – 20.7 wt%
Oil, by centrifuge – none detected
Solids, by centrifuge – 1.5 vol%
Sulfides – present
Ammonia odor present in sample.

As a side note, the CRC Handbook lists the percentage of a pure KOH solution in water as 22.0 wt% with a density of 1.2035 @ 20 deg C, indicating that our testing method is not too far off.



PA-2602



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 1/25/2008

Dear Grace Dean

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2602

Expiration Date 1/25/2010

Producer: Arkema, Inc.

Address: 2231 Haden Road

Houston, TX 77015

Material / Product Information

Name of Material / Product Recyclable caustic soda

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Scrubber process

Color: Clear dark amber

Odor: strong

pH: 14

Physical State:

Incompatibilities: Reacts violently or explosively with water, acids, and organic

materials, carbon monoxide can from upon contact with food or

beverage products

Safety Related Data/Special Handling:

Where there is a potential for leye contact, wear a face shield, chemical goggles, and have eye flushing equipment available. Wear appropriate chemical resistant protective clothing and chem9ical resistant gloves to prevent skin contact. Avoid breathing

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

att.

JAN-23-2008 13:11

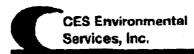
CES Environmental Svcs.

7137488664

JB

P.2





4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Ma						and the second s	
Company:	Arkema Inc.	rmatton					
Address:	2231 Haden Rd.	····					
City, State, Zip:	Houston, TX 77	015					
Cantact:	Grace Dean	V	Title				
Phone Not	(713) 450-6746	······································	Fax				
24/hr Phone:	(800) 424 9300			_			
U.S. EPA I.D. No:	TYCOOOPO9	2011					
State I.D.	30503	<u> </u>	SIC	Code:	NA		
	70,07			~~	70/1		
SECTION 2: Billi	ng Information -	Same as Above	•				
Company:	Arkema Inc.						
Address:	2231 Haden Rd.				···		
City, State, Zip:	Houston, TX 7701:	5					
Contact:	Brantley Moonyhai		itle:				
Phone No:	(713)450-6746	F	ax No:	-,			
	Product: <u>Recycleal</u> n of Process Genera		the Material / Pi	roduct: <u>Sc</u>	rubber pro	cess	
Physical State:	☑ Liquid ☐ Solid	Sludge Filter Cake	Pow	der ablastion			
Color: <u>Clear dark ar</u>	<u>nber</u>	Odor: Strong				4	
		Odor: <u>Strong</u> Density: <u>9.08</u>	bs/gal				
Specific Gravity (w		Density: <u>9.08</u>	-				
Specific Gravity (w. Layers: Container Type:	ntcr=1): <u>1.090</u>	Density: 9.08	phase 🛭 Tri	uck 20 gal		Other (explai	n)
Specific Gravity (w. Layers: Container Type: Container Size:	ater=1): <u>1.090</u> Single-phase Drum	Density: 9.08 Multi-	phase 🗵 Tre	00 gal	_		a)
Specific Gravity (w. Layers: Container Type: Container Size: Frequency:	ater=1): <u>1.090</u> Single-phase Drum Weekly	Density: 9.08 Multi- Tote	phase Tri 504			Other (explai	a)
Specific Gravity (w. Layers: Container Type: Container Size: Frequency:	Single-phase Drum Weekly ontainers): 2-3	Density: 9.08 Multi- Tote Monthly Other:	phase Tri 504	00 gal	_		n)
Specific Gravity (w. Layers: Container Type: Container Size: Frequency: Number of Units (co	Single-phase Drum Weekly ontainers): 2-3	Density: 9.08 Multi- Tota Monthly Other: _	phase I Tre	00 gal arterly	0	Yearly	n)
Specific Gravity (w. Layers: Container Type: Container Size: Frequency: Number of Units (co	Single-phase Drum Weekly ontainers): 2-3	Density: 9.08 Multi- Tote Monthly Other: _ UN 2924 , F	phase Tri 504	00 gal arterly I. Coπosiv	/e, n.o.s., 3,	Yearly	n) NaOH 1000#
Color: Clear dark and Specific Gravity (w. Layers: Container Type: Container Size: Frequency: Humber of Units (color toper U.S. DOT SIClass: 3	Single-phase Drum Weekly Ontainers): 2-3	Density: 9.08 Multi- Tote Monthly Other: _ UN 2924 , F	phase Tri 500 Qu lammable Liquic	neterly i. Corrosiv PG I	/e, n.o.s., 3,	Yearly PG II RQ:	
Specific Gravity (w. Layers: Container Type: Container Size: Frequency: Number of Units (co	Single-phase Single-phase Drum Weekly ontainers): 2-3 sipping Name: UN/N	Density: 9.08 Multi- Tote Monthly Other: _ UN 2924 , F	phase Tri 500 Qu lammable Liquic	arterly I. Corrosiv PG I	/e, n.o.s., 3,	Yearly PG II RQ: Solids 1%	

1

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JAN-23-2008 13:11

CES Environmental Svcs.

7137488664

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
Carbon Disulfide	<.1	%
Sodium Hydroxide	10-15	%
Water	85-90	%

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain. Where there is a potential for eye contact, weat a face shelld, chemical googles, and have eye flushing equipmeny available. Wear apportate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Avoid breathing vapor or mist.

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. **MSDS**

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

Reacts voilently or explosively with water, acids and organic materials. carbon monoxide can form uppn contact with food or beverage products.

SECTION 8: Moterial Producer's Certification

The information contained herein is based on \square generator knowledge and/or \boxtimes analy	tical data. I hereby certify that the above and
attached description is complete and accurate to the best of my knowledge and abil	
omissions of composition properties exist and that all known or suspected hazards have	ve been disclosed. I certify that the materials
tested are representative of all materials described by this document.	
	Date: 1-24-08
Authorized Signature: Lawy Truck	Date: 1-29-0
-tonda For many King M.	

Technical Manager: Partie In This space) Technical Manager: Partie In This space) Date: 1-25-08 Approved Rejected Approval Number: 2602	Process Facility Information: 11.54/9 Al FSC 20%0 TRANS I 400/10.2d Ocherrystally
---	--



(ema

Material Safety Data Sheet

Arkema Inc.

1 PRODUCT AND COMPANY IDENTIFICATION

Thio and Fine Chemicals

Arkema Inc.

2000 Market Street

Philadelphia, PA 19103

EMERGENCY PHONE NUMBERS:

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

Medical: Rocky Mountain Poison Control Center

(866) 767-5089 (24Hrs)

Information Telephone Numbers

Phone Number

Available Hrs

Customer Service

1-800-628-4453

8:30 to 5:30 EST

Product Name

Caustic Soda, Shipment Grade

Product Synonym(s)

Chemical Family

Alkali

Chemical Formula

NAOH

Chemical Name

EPA Reg Num Product Use

Sodium Hydroxide

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical %	OSHA	
Carbon disulfide	75-15-0	<0.1%	Υ	
Sodium hydroxide	. 1310-73-2	10-15%	Y	
Water	7732-18-5	85-90%	N	

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

This material is classified as hazardous under Federal OSHA regulation.

The components of this product are all on the TSCA Inventory list.

3 HAZARDS IDENTIFICATION

Emergency Overview

Orange slightly turbid liquid with foul odor.

DANGER!

FLAMMABLE LIQUID AND VAPOR.

CAUSES EYE, SKIN AND RESPIRATORY TRACT BURNS. MAY CAUSE BLINDNESS.

CAUSES SEVERE DIGESTIVE TRACT BURNS.

EVEN DILUTE SOLUTIONS MAY CAUSE BURNS.

Potential Health Effects

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. This material is a strong alkali that can be destructive to tissue producing severe burns which are not immediately painful or visible. Contact with body tissues may produce deep ulceration, scarring or loss of sight. Concentrations as low as 2-3% can cause injury. Dermatitis (inflammation of the skin) and superficial skin damage can result from repeated or prolonged contact with very dilute solutions. High levels of dust or mist may be corrosive to mucous membranes producing eye or lung injury and chemical pneumonia. Lower concentrations may produce irritation of eyes, nose or upper respiratory tract with coughing, sore throat and shortness of breath. Prolonged exposure may result in ulceration of the nasal passages. If swallowed, this material may cause severe internal injury, characterized by pain in the mouth

Product Code: 001938 Revision: 6 Issued: 23 FEB 2007 Page 1 of 7

Caustic Soua, Simplifient Grave

Material Safety Data Sheet -



Arkema Inc.

and stomach, vomiting, and breathing difficulties. Medical conditions which may be aggravated by exposure to this material include lung disease or limited respiratory capacity.

4 FIRST AID MEASURES

IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.

IF ON SKIN, immediately flush with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Destroy contaminated shoes.

IF SWALLOWED, do NOT induce vomiting. Give water to drink. Get medical attention immediately. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5 FIRE FIGHTING MEASURES

Fire and Explosive Properties

Auto-Ignition Temperature

ΝE

Flash Point

70 F - >150 F

Flash Point Method

Flammable Limits- Upper

NE

Lower

ΝE

Extinguishing Media

Use water spray, carbon dioxide, foam or dry chemical.

Fire Fighting Instructions

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

Fire and Explosion Hazards

Contact with metal can form hydrogen gas. Hydrogen is extremely flammable and can form explosive mixtures with air. Closed containers may explode when heated or contents contaminated with water.

6 ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Stop the leak, if possible. Ventilate the space involved. Contain, vacuum up, place in non-sparking container for disposal. Prevent waterway contamination. Construct a dike to prevent spreading. Collect runoff and transfer to drums or tanks for later disposal. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

7 HANDLING AND STORAGE

Handling

Do not get in eyes, on skin or clothing. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. To avoid rapid temperature rise, violent spattering, or explosive eruptions: always add caustic to water when mixing. Never add water to a caustic when mixing. Heat water to 80-100 F before adding product. Add small amounts of product slowly and evenly over surface of water with constant stirring. Never increase concentration of product by more than 5% with any single

Product Code: 001938 Revision: 6 Issued:23 FEB 2007 Page 2 of 7

Caustic Soda, Shipment Grade



Material Safety Data Sheet

Arkema Inc.

Malua

7 HANDLING AND STORAGE

addition. Water should not exceed 160 F during addition.

Storage

Do NOT store near strong acids.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation if necessary to control exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems. Monitor carbon monoxide and oxygen levels in tanks and enclosed spaces.

Eye / Face Protection

Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.

Skin Protection

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Wear face shield and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse contaminated skin promptly. Wash contaminated clothing and clean protective equipment before reuse. Wash skin thoroughly after handling.

Respiratory Protection

Avoid breathing vapor or mist. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Airborne Exposure Guidelines for Ingredients

Exposure Limit		value	
Sodium hydroxide		1	
ACGIH CEILING	-	2 mg/m3	
OSHA TWA PEL	· -	2 mg/m3	
Carbon disulfide			
ACGIH Skin designator	-	Υ	
ACGIH TWA	•	1 ppm	
OSHA Ceiling PEL	-	30 ppm	
OSHA TWA PEL	-	20 ppm	
0.1.0			

⁻Only those components with exposure limits are printed in this section.

Product Code: 001938 Revision: 6 Issued: 23 FEB 2007 Page 3 of 7

⁻Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.

⁻ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.

⁻WEEL-AlHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.



Caustic Soda, Shipment Grade

Material Safety Data Sheet

Arkema Inc.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor

Orange slightly turbid liquid with foul odor.

рΗ

NE

Specific Gravity Vapor Pressure 1.073 @ 15 C 30 @ 100 F

Vapor Density Melting Point NA NA

Freezing Point Boiling Point NE NE

Solubility In Water

99.98%

10 STABILITY AND REACTIVITY

Stability

This material is chemically stable under normal and anticipated storage and handling conditions.

Incompatibility

Reacts violently or explosively with water, acids and organic materials such as chlorinated hydrocarbons. Toxic carbon monoxide gas can form upon contact with food or beverage products.

Hazardous Decomposition Products

Will react with some metals such as aluminum, tin or zinc to generate hydrogen gas. Hydrogen gas can result in explosive hazards in confined spaces.

11 TOXICOLOGICAL INFORMATION

Toxicological Information

Data on this material and/or its components are summarized below.

Sodium Hydroxide

Single exposure (acute) studies indicate that this material is slightly toxic if absorbed through the skin (rat LD50 1,350 mg/kg; dry sodium hydroxide) and corrosive to rabbit eyes and skin. Many publications in the scientific literature confirm that this material is corrosive to all tissues. Repeated inhalation resulted in lung damage in rats. No tumors were seen in long-term animal studies. No genetic changes were observed in tests using bacteria.

No significant increases in mortality in relation to duration or intensity of exposures were reported in an epidemiologic study of a small group of workers exposed to caustic dust for 30 years or more. Massive ingestion of this material has been implicated as causing esophageal cancer. Squamous cell carcinomas of the esophagus occurred approximately 12-42 years later in individuals who survived accidental childhood ingestion and are likely due to the tissue destruction and possible scarring of the esophagus rather than a direct effect of this material.

Carbon Disulfide

Single exposure (acute) studies indicate that this material is slightly toxic to rats if swallowed (LD50 3,188 mg/kg) or rabbits if absorbed through skin (LD50 2,025 mg/kg), practically non-toxic to rats if inhaled (1-hr LC50 40 mg/l), and severely irritating to rabbit skin and eyes. The neurological effects of long-term exposure have been documented in occupational populations who were generally exposed to levels of 20 ppm or more in viscose rayon production. Exposed workers have experienced headaches, nausea, dizziness, tiredness, memory loss, sleep disturbances, irritability and other psychological symptoms in the early stages of intoxication. Long-term exposure has resulted in decreased nerve conduction velocities, memory loss,

Product Code: 001938 Revision: 6 Issued: 23 FEB 2007 Page 4 of 7

PRKEMA.

Gaustic Soda, Simpinient Grade

Material Safety Data Sheet

Arkema Inc.

11 TOXICOLOGICAL INFORMATION

peripheral neuropathy (numbness) in the lower legs and forearms, tremors, poor coordination and personality disorders. In addition, several studies have shown adverse effects on the heart including increases in atherosclerosis, death from coronary or ischemic heart disease and blood pressure. Other studies have indicated that long-term overexposure can cause adverse effects on the eyes including increased hemorrhages or microaneurysms of the retina. Studies of occupationally exposed workers have suggested that long-term exposure to higher levels may cause reproductive effects. Male workers had decreased libido, reduced sperm count and altered endocrine function and female workers reported menstrual irregularities. Sperm from exposed workers have shown alterations indicative of spermatogenic damage. There is conflicting evidence whether increased pregnancy complications and a higher frequency of spontaneous abortions are related to exposures in female workers.

Animal studies have confirmed neurological effects. Rats exposed for long periods to high levels showed decreased motor conduction velocity, hindlimb motor defects, peripheral nerve swelling and degeneration. Repeated exposure of monkeys has resulted in reduced visual acuity. Following inhalation exposure in male rats, minor reproductive effects such as decreased sperm counts and abnormal mating behavior, but no pathological changes were noted in testes. A two-generation reproduction study in exposed female rats showed no reduction in fertility, but mothers exposed to high dose levels had reduced pup viability. Multiple developmental toxicity studies in rats and rabbits have presented evidence of increased birth defects and embryotoxicity at high dose levels; however, exposures at levels that are not maternally toxic generally do not cause birth defects, although developmental effects have been observed. No genetic changes were observed in tests using bacteria, but have been observed in animal cells.

12 ECOLOGICAL INFORMATION

Ecotoxicological Information

Data on this material and/or its components are summarized below.

Sodium Hydroxide

Data from several species of fish showed a range of tolerance (brook trout > spotfin and Lake Emerald shiners > minnows > mosquitofish > goldfish) that was most likely related to changes in the pH produced by addition of sodium hydroxide to the water. The minimum lethal concentration for minnows, Mayfly larvae and Daphnia was 100 ppm and for Chironomus larvae, 700 ppm.

Carbon Disulfide

This material is moderately toxic to Daphnia magna (LC50 2.1 mg/l). It is moderately toxic to guppies (LC50 4 mg/l) and slightly toxic to green algae (LC50 21 mg/l). It is practically non-toxic to mosquitofish (LC50 135 mg/l) and bacteria (LC50 341 mg/l).

Chemical Fate Information

Data on this material and/or its components are summarized below.

Sodium Hydroxide

No data were available, but this material is a strong alkali that easily dissolves in water with resulting acid/base chemistry.

Product Code: 001938 Revision: 6 Issued: 23 FEB 2007 Page 5 of 7

Caustic Soda, Shipment Grade

erkeme

* Material Safety Data Sheet

Arkema Inc.

13 DISPOSAL CONSIDERATIONS

Waste Disposal

Consult with environmental engineer or professional to determine if neutralization is appropriate and for handling procedures for residual materials. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

14 TRANSPORT INFORMATION

DOT Name

Flammable Liquid, Corrosive, NOS

DOT Technical Name

(Sodium Hydroxide; Carbon Disulfide)

DOT Hazard Class

5, O

UN Number

UN 2924

DOT Packing Group

PG II

RQ

Sodium Hydroxide 1000# (dry basis); Carbon

Disulfide 100#

DOT Special Information

Subsidiary hazard: 8 Corrosive

On a waste manifest, add the word "Waste"

15 REGULATORY INFORMATION

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate (Acute) Health Y

Fire

Υ

Delayed (Chronic) Health N

Reactive

N N

Sudden Release of Pressure

The components of this product are all on the TSCA Inventory list.

Ingredient Related Regulatory Information:

SARA Reportable Quantities

CERCLA RQ

SARA TPQ

Sodium hydroxide

1000 LBS

Water

NE

Carbon disulfide

100 LBS

10000 LBS

SARA Title III, Section 313

This product does contain chemical(s) which are defined as toxic chemicals under and subject to the reporting requirements of, Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. See Section 2

Carbon disulfide

SARA Title III, Section 302

This product does contain chemical(s), as indicated below, currently on the Extremly Hazardous Substance List, Section 302, SARA Title III. See Section 2 for further details regarding concentrations and registry numbers.

Carbon disulfide

California Prop 65 - Developmental Toxin

This product does contain the following chemical(s), as indicated below, currently on the California List of Developmental Toxins. Carbon disulfide

Massachusetts Right to Know

This product does contain the following chemicals(s), as indicated below, currently on the Massachusetts Right to Know Substance List,

Product Code: 001938

Revision: 6

Issued: 23 FEB 2007

Page 6 of 7

ARKEMA

Caustic Soda, Shipment Grade

Material Safety Data Sheet

Arkema Inc.

Massachusetts Right to Know

This product does contain the following chemicals(s), as indicated below, currently on the Massachusetts Right to Know Substance List

Carbon disulfide

Sodium hydroxide

New Jersey Right to Know

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List.

Carbon disulfide

Sodium hydroxide

Pennsylvania Environmental Hazard

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard List.

Carbon disulfide

Sodium hydroxide

Pennsylvania Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List.

Carbon disulfide

Sodium hydroxide

16 OTHER INFORMATION

Revision Information

Revision Date

23 FEB 2007

Revision Number 6

Supercedes Revision Dated

07-NOV-2006

Revision Summary

Moved from Retired to Active 03.

Key

NE= Not Established NA= Not Applicable (R) = Registered Trademark

Miscellaneous

NOTE: Toxic carbon monoxide gas can form upon contact with food and beverage products in enclosed spaces and cause death.

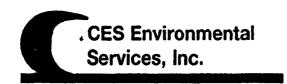
Arkema Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of Arkema Inc., Arkema Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

Product Code: 001938 Revision: 6 Issued: 23 FEB 2007 Page 7 of 7

	7		1	
TRACK #3 (21745)	TRACK #2 (21744)	TRACK #1 (21743)		
CAR#	Spot #1		Spot #1	
	Car # UTLX 901311 Loa	ad	Car # utlx 901317	unioad
	IP		IP	
	NDM 20 F	/IG	ndm	
	Lot# Wt.		Lot# Wt.	- 10 di - 2 di -
	Spot #2		Spot #2	
	Car #		Car# UTLX 901320	load
			IP	
	Lot# Wt.		Lot# Wt.	
	Spot #3		Spot #3	
	Car # GATX 81893		Car # CPCX 206121	
	TETRAMER 30 N	iG	DODECENE	30 MG
	Lot# Wt. 184,	954	Lot# Wt.	175,35
	\		Spot #4	
	Car #		Car#	
	PURGE/REPAIR ONLY		PURGE/REPAI	R ONLY
	Lot# Wt.		Lot# Wt.	
	Spot #5		Spot #5	
	Car #	ll ll	Car#	
	PURGE/REPAIR ONLY		PURGE/REPAIR ONLY	
	Lot# Wt.		Lot# Wt.	
	Spot #6		Spot #6	
	Car#	li.	Car#	
	PURGE ONLY		PURGE ONLY	
· · · · · · · · · · · · · · · · · · ·	M	l	LEAD	
plant: Control Room:	713-450-5870 or 713-450-5887			
MERGENCY CONTAC			:	
	er: 888-487-5997 / Cell: 713-304-7037	-		
ace Dean - Cell: 713-	ace Dean - Cell: 713-838-5920			

RACK WORI	(SCHEDUL			Date: 11/5/200) (
TRACK #3 (21745)	TRACK #2 (21744)			TRACK #1 (21743)		
CAR#	Spot #1			Spot #1		
	Car # UTLX 9013	311	Load	Car# utlx 901	1317	unload
	IP			(1	IP	
	NDM		20 MG	ndm		
	Lot#	Wt.		Lot#	Wt.	
	Spot #2			Spot #2		
	Car#			Car# UTLX 9	01320	load
	Kija wasan dan wasan sa			A SHEET	IP	
	Lot#	Wt.		Lot#	Wt.	
	Spot #3			Spot #3		
	Car # GATX 818	93		Car # CPCX	206121	
naam				3 8 8 9 9 9 9 9 9	yte yt	
	TETRAMER		30 MG		ENE	30 MG
	Lot#	Wt.	184,954	Lot#	Wt.	175,35
	\			Spot #4		
	Car#			Car#		
	PUI	RGE/REPAIR	RONLY	1	PURGE/REPAIR	ONLY
	Lot#	Wt.		Lot#	Wt.	
	Spot #5			Spot #5		
	Car #	· · · · · · · · · · · · · · · · · · ·		Car#		
	PURGE/REPAIR ONLY		1	PURGE/REPAIR	ONLY	
	Lot#	Wt.		Lot#	Wt.	
	Spot #6			Spot #6		
	Car #			Car#		
	PURGE	ONLY			GE ONLY	
olant: Control Room:	713-450-5870 or 71	3-450-5887		LEAD		
ERGENCY CONTAC	ST:					
nes Wheeland - Pag	er: 888-487-5997 / 0	Cell: 713-304	1-7037			
ace Dean - Cell: 713-	838-5920					

fratile 2641



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 3/11/2008

Dear Randy Woolvine

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2641

Expiration Date 3/11/2010

Generator: Citgo Accounts Payable @ Lake Charles

Address: P. O. Box 600

Lake Charles, LA 70602

Waste Information

Name of Waste: Naphthenic caustic

TCEQ Waste Code #: Product

Container Type: Barge possible

Detailed Description of Process Generating Waste:

Treating of kerosene and jet fuel w/caustic to remove sulfur compounds

Color: Medium dark

Odor: Characteristic Naphthe pH: >12.0

Physical State:

Incompatibilities: Strong acids

Safety Related Data/Special Handling:

PPE, gloves, glasses/goggles

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 ISWR No: 30900

	rial Producer Inform						
Company:	- Citaole	troleum Corp	oration				
Address:		P.o. Box 600'					
City, State, Zip:	Lake (hartes, LA	70607				
Contact:		olwine	Title:	Funchasing Agent			
Phone No:	3372 70	8-8274	Fax No:	337-708-16289			
24/hr Phone:							
U.S. EPA I.D. No:	NIA	· · · · · · · · · · · · · · · · · · ·	·····				
State LD.	NID		SIC Code:	NIA			
SECTION 2: Billing	g Information – 🔲 S	ame as Above					
Company:							
Address:							
City, State, Zip:							
Contact:		Title:					
Phone No:		Fax N	lo:				
_				· · · · · · · · · · · · · · · · · · ·			
SECTION 3: Gener	al Description of the	Material / Product					
		•	1.				
Name of Material /]	Product: <u>N</u> APT	henic Causi	ት				
Detailed Description	of Process Generati	ng or Producing the I	Material / Product: _	Treating of kerosene and Jet fuel w/ caustic			
		•	_	Tot find will course			
				Jes rues wy tangae			
Physical State:	Liquid Liquid	☐ Sludge	☐ Powder	to remove suffer compounds			
	Solid	Filter Cake	Combination	compounds			
		ritter care	Combination	,			
Color: med da	rK o	dor: <u>Characteri</u>	chir Alandhanis	erid			
Color. mon vi a	,	dor: <u>Characteri</u>	STIC TOUPINEMIC	-4010			
Specific Gravity (wa	to1\)	D C-A 11	/1				
Specific Gravity (wa	ter=1): <u>7.10</u>	Density: $8-9$ lbs/	gai				
35. 48. 4 . 4							
Does this material co	ontain any total phen	olic compounds? 🗹	Yes No				
Does this material as	ntain any nava amba	ituted phenolic comp		7 a			
Does this material co	mam any para subsi	нитеи распоис сотр	ounds: 🖾 Yes 🗀	T IA0			
Layers:	Single-phase	☐ Multi-pha	60				
Lay or s.	□ Single-huase	мічні-рна	3 c	•			
Contoinen Temes		F7	 	tt comment			
Container Type:	☐ Drum	Tote	Truck	Other (explain)			
Container Size:			•	Barge Possible			
	,			•			
Frequency:	Weekly	☐ Monthly	Ouarterly	□ Vacatri			
• •		•	<u> </u>	☐ Yearly			
Number of Units (co		Other:					
	Pn	odut					
Proper U.S. DOT Sh	ipping Name:		1:- 1- 1:				
		Lorrosive	uguids N.	o.s. (Naphthenic acid salts)			
Class: 8	UN/NA	1760	PG: T	<u>R</u> Q: <i>№</i> 0			

Flash Point	bH > 19.0	N/A	N/A	Solids
Oil&Grease mg/l 5-7%	TOC mg/l / ^{1//}	Zinc 4. 114. mg/l	Copper mg/l	Nickel
SECTION 4: Physics	al and Chemical Da	nta		

CONCERNIANT A.	TM	Chemical Data
CALL STREET, A	PRVEICAL ADA	C DAMINGI IDOTO
	A BYOKAK AND	LUCHICEI DAG

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
Sodium Hodorxide	2 12	100
Naphtenic acrd 52145	0-6	0,5
Petcanlaum Ditillates	0-1	Ofto.
mixed corpulate acid salts	0-2	0/6
Witer	Balow	93

SECTION	5: Safety I	Related	Data
DECEMBE	VI WHAVE A	CALLES FAR	27-01-199

SECTION 8: Material Producer's Certification

ECTION 5: Safety Related Data
the handling of this material / product requires the use of special protective equipment, please explain.
- PPE, Gloves, Sleeses/Gossles
ECTION 6: Attached Supporting Documents
ist all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.
- NIA.
ECTION 7: Incompatibilities
lease list all incompatibilities (if any): $s \rightarrow r = a_5 + a$

attached description is complete and acc	urate to the best of my	knowledge and ability to	determine that r	to deliberate or willful
omissions of composition properties exist			en disclosed. I co	ertify that the materials
tested are representative of all materials de	scribed by this documen	ıt.		
Authorized Signature: Keunda	Molevine	Da	te: 03/05/08	

The information contained herein is based on generator knowledge and/or analytical data. I hereby certify that the above and

Printed Name/Fitle: RAN/04 WOOLWINE

CES USE ONLY (DO NOT WIRITE IN THIS SPACE) Rejected 2641 Approval Number:

2

CERTIFICATE OF ANALYSIS I 62376.01

1of 1

Customer: CES Env. Svcs. Project ID: Citgo LC Sample ID: Naphthenic Caustic 09-28-07

Environ ID: 62376.01 Sampled: 99-28-07

Project Loc: L.C, L.A Charge/P.O.: Matrix: Waste Water

Received: 10-01-07 Reported: 10-05-07

, Abc	
RECEIVED	Basis

1111 - 111 DD - 1111D									
analyte/ Parameter	Fla	SULT	UNITS	REG.	MQL	TEST METHOD	ANALYST	DATE	TIME
Caustic As NaOH	Ī	1.9	WŁ%	-	0.1	EPA 600.310.1	OLC	10-03-07	07:00
Phenolics	ł	2,790	mg/l	-	0.05	EPA 600.625	l rc	10-04-07	10:00
Benzene METALS (RCRA) - TCLI	P	1.94	mg/l	-	0.01	SW846.8021B SW846.1311	DMB MN	10-02-07 10-01-07	
Arsenic)	0.9	mg/l	5.00	0.2	SW846,6010B	JK	10-03-07	13:20
Berium	1	0.5	mg/l	100	0.2	SW846.6010B	JK	10-03-07	13:20
Cadmium	۱ <	0.2	mg/l	1.00	0.2	SW846.6010B	l JK	10-03-07	13:20
Chromkum	<	0.2	mg/l	5.00	0.2	SW846.6010B	JK	10-03-07	13:20
Lead	<	0.2	mg/i	5.00	0.2	SW846,6010B	JK]	10-03-07	18:20
Nickel	<	0.2	mg/l	70.00	0.2	SW846.6010B	JK	10-03-07	13:20
Selenium	<	0.2	mg/l	1.00	0.2	5W846.6010B	JK	10-03-07	13:20
Silver	<	0.2	mg/i	5.00	0.2	SW846.6010B	JK	10-03-07	13:20
Zinc	<	0.2	mg/l	-	0.2	SW846.6010B	JK	10-03-07	19:20
Mercury		0.018	Ngm	0.200	0.002	SW846.7470A	MIN	10-02-07	12:00

Definitions:

REG - Regulatory Limit (User Should Continu Limits)

MQL - Method Quantitation Limit

PPM - Perts Per Million

mg4 - PPM by Volume, mg/kg - PPM by Weight

John Keller

John Keller, Ph.D Laboratory Director



1.	Base Pricing (including freight):
	- Transporter e 14/gal.
	- Transportation et 14/gal Material management e 8.41/gallon
2.	Contamination Limits (maximum limit before surcharges apply):
	NIA
3.	Surcharge Pricing:
	NIA
4.	Special Testing Requirements:
	- Run treatebility as below listed;
	m #≤
	Test water phase for TSS, pH, phenols 4-4
5.	Treatment and Handling Protocol: the bottom Water must be heated to remove lights; to Newly Break emulsion by adjusting to a pH of x to at least less than a 4.0 - segregate oil into a dedicated storage tent / tentere onsite
	- Break emulsion by adjusting to a pH of X to at least less than a 4.0
$\widehat{}$	- segregate oil into a dedicated storage tent /tentere onsite
>	- Be sure to treat prevols in wastewater from the process - water will continue to drain / set he out of the product. Be sure to drain water off product storage trailer as it will be corrosive.
6.	Treated Wastewater Discharge Subcategory:
	Subcategory A Subcategory B Subcategory C



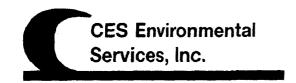
7. Tests for Product Recovered/Recycled (if applicable):

This material will be sold to Eugean or chinese markets & Be sure to drain water off bottom of traiter

8. Management for Product Recovered/Recycled (if applicable);

This material should be segregated into a dedicated product storage trailer. Water should continuously by drained from the trailer. We will ship the naterial [via rented Iso) to Europe or China.

PA-2674



Material / Product Approval Letter

Date 3/31/2008

Dear Patricia Hicks

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2674

Expiration Date 3/31/2010

Producer: International Diamond Services

Address: 3420 Pinemont

Houston, TX 77018

Material / Product Information

Name of Material / Product Scrubber caustic solution

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Spent caustic from scrubbers

Color: clear to brown

Odor: pungent

pH: 12-14

Physical State:

Incompatibilities: acids, oxidizers
Safety Related Data/Special Handling:

std PPE (suite)

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. Of Codes
this waste is a though the

CES Environmental Services, Inc.

this would have to e recycle. Call G. Lanetz.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460 Fax

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mater	ial Producer Inforn	aation			
Company:	International Dian				
Address:	3420 Pinemont				
City, State, Zip:	Houston, TX 7701	8			
Contact:	Patrica Hicks		Title:		
Phone No:	(713) 681-5485		Fax No:		
24/hr Phone:					
U.S. EPA I.D. No:	TXR000027573				
State I.D.	20710		SIC Code:	n/a	
			 		
SECTION 2: Billing	Information – 🛛 S	Same as Above			
Company:					
Address:					
City, State, Zip:					
Contact:		Title:			
Phone No:	***************************************	Fax No:	· · · · · · · · · · · · · · · · · · ·		
					
SECTION 3: Genera	al Description of the	Material / Product			
	22 000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Name of Material / P	roduct: Scrubber C	austic Solution			
		ing or Producing the Ma	terial / Product: s	spent causti	ic from scrubbers
Detailed Description	or a roccos concrue	ang or 1 2 0 and 11 2		pont odust.	
Physical State:	∠ Liquid	☐ Sludge	Powder		
1 117 Stell States		☐ Filter Cake	Combination	_	
	☐ Solid	☐ Fitter Cake	Combination	1	
Color: <u>clear to brown</u>	(Odor: pungent			
Specific Gravity (wat	ter=1): <u>1.1</u>	Density: 9.2 lbs/gal			
		,			
Does this material co	ntain any total phei	iolic compounds? 🔲 Ye	es 🛛 No		
				_	
Does this material co	ntain any para subs	tituted phenolic compou	inds? 🗌 Yes 🛛 🗵	No	
	_	 -			
Layers:	⊠ Single-phase				
Container Type:	☐ Drum	☐ Tote	Truck		Other (explain)
Container Size:			<u>3-5000g</u>		• •
Container Size.			<u> </u>		
Frequency:	☐ Weekly	☐ Monthly	Quarterly		Yearly
Number of Units (con	itainers): 1	Other:	•		- -
(0011					
		Product			
Proper U.S. DOT Shi	pping Name:	Corrosive liquids, r	.o.s., 8, UN1760, F	PGII (20%	caustic)
Class: 8	TIMIAT.	A: 1760	DC: II		PO:
Class: 8	UN/NA	1, 1700	PG: II		RQ: na

Flash Point	pН	N/A	N/A	Solids
<u>>160</u>	12-14			0%
Oil&Grease	TOC	Zinc	Copper	Nickel
0mg/l	0mg/l	<u>O</u> mg/l	<u>0</u> mg/l	<u>O</u> mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
sodium hydrosulfide	0-10	%
sodium hydroxide	10-15	%
water	75-90	%

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain. standard PPE (suit)

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. none

SECTION 7: Incompatibilities

Authorized Signature:

Printed Name/Title: not required

Please list all incompatibilities (if any): acids , Oxid: 3ers

SECTION 8: Material Producer's Certification

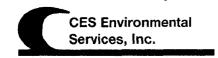
The information contained herein is based on generator knowledge and/or analytical data. I hereby certify that the above and
The information contained herein is based on [3] generator knowledge and/or [3] analytical data. I hereby certify that the above and
attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willfu
omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials
tested are representative of all materials described by this document.

Date: 3/25/08

CES USE ONLY (DO NOT WRITE IN THIS SPACE) Technical Manager: Robbard London	
Date: 3-31-08 Approved Rejected	
Approval Number: 2674	

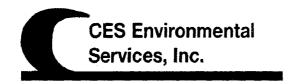


1.	Base Pricing (including freight):
	\$.405/gal
	\$69/hr trans
	20% fuel surcharge
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
٥.	Surenarge Freing.
4.	Special Testing Requirements:
	Specific Gravity) to Solids, Sulfides
	% suspended solids
	pH
	visual for oil and grease (NO OIL/GREASE ALLOWED!!)
	Determine % caustic by titration to pH 4 or by using specific gravity and the "Handy Math Calculation" - see shared drive
	Sulfides must be low
5.	Treatment and Handling Protocol:
-	
Į	
,	Tuesdad Wiesdamadam Disabamas Cubasatanama
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



Tests for Product Reco	vered/Recycled (if ap)	pncable):	
M. D. I	4 D	1 (25	
Management for Produ	act Recovered/Recycle	ed (if applicable);	
Management for Produ	act Recovered/Recycle	ed (if applicable);	
Management for Produ	act Recovered/Recycle	ed (if applicable);	
Management for Produ	act Recovered/Recycle	ed (if applicable);	

PA-2759



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 4/25/2008

Dear Roy Hebert

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2759

Expiration Date 4/25/2010

Producer: Enterprise Products Operating, L.P. - Port Allen

Address: 2220 North River Rd.

Port Allen, LA 70767

Material / Product Information

Name of Material / Product Spent potassium hydroxide (for product recycling)

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Reinery grade propylene flows upward through two layers of KOH briquettes. In the presence of oxygen molecule (provided by the water that is injected) COS is converted in some sort of sulfide which is entrained in the melted KOH that gathers in the bot

Color: Dark

Odor: Ammonia

pH: 12-14

Physical State:

Incompatibilities: Acids

Safety Related Data/Special Handling:

std PPE for high pH materials with sulfides

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.





CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

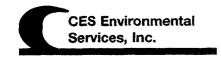
TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461

ISWR No: 30900

SECTION 1: Mate	erial Producer Inform				
Company:		Operating, LLC - Port A	Allen		
Address:	2220 North River F				
City, State, Zip:	Port Allen, LA 70	/6/	7714.43	F: 11 F	
Contact:	Rory Hebert		Title:		vironmental Scientist
Phone No:	225-381-3459		Fax No:	225-381-	-34/6
24/hr Phone:	225-278-5496				
U.S. EPA I.D. No:	LAR000033100		SIC Code:		
State I.D.	D0022		SIC Code:	NQ	
	ng Information – S	ame as Above			
Company:		perating, LLC - Port All	en		
Address:	2220 North River Roa				
City, State, Zip:	Port Allen, LA 7076				
Contact:	Rory Hebert	Title:	Field Environ		entist
Phone No:	225-381-3459	Fax No:	225-381-347	6	
Name of Material / Detailed Description through two layers K some sort of sulfide	n of Process Generati OH briquettes. In the r which is entrained in th	sium hydroxide (for prod ng or Producing the Ma presents of oxygen molec	aterial / Product: rule (provided by the ers in the bottom o	he water that f the vessel.	rade propylene flows upward at is injected) COS is converted into Periodically the liquid or spent
Physical State:	⊠ Liquid □ Solid	☐ Sludge ☐ Filter Cake	Powder Combination	n	
Color: dark	, 0	dor: ammonia			
Specific Gravity (wa	ater=1): <u>1.203</u>	Density: 10.03 lbs/ga	I		
Does this material c	ontain any total phen	olic compounds? 🔲 Y	es 🛭 No		
Does this material c	ontain any para subst	ituted phenolic compo	ınds? 🗌 Yes 🏻 [⊠ No	
Layers:	⊠ Single-phase	☐ Multi-phase			
Container Type:	☐ Drum	☐ Tote			Other (explain)
Container Size:	auth diale au province	Name and Address of the Address of t	<u>4000</u>		
Frequency: Number of Units (co	PI	Monthly Other: RODUCT UN1760, Corrosive	Quarterly	otassium hy	Yearly /droxide)
-					

Class: 8	and the second seco		UN/NA:	UN 1760	PG:	II		RQ:	1000
Flash Point		pH	N/A	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N/A			Solids	
>150000		<u>12-14</u>						0-2%	
Oil&Greas	e	TOC		Zinc	Copper		Nickel		
namg/l		namg/I		namg/I	<u>namg/l</u>		namg/l		
SECTION	4: Physica	al and Chem	ical Data						
			NENTS TA			Con	centration	1	Units
	e materia	l / product c	onsists of th	e following mate	rials		are accept		or %
Water			······································			75-80			%
Potassium	Hydroxide	9				20-25			%
Carbon						1-2			%
SECTION 6 List all documone SECTION 7 Please list al Acids SECTION 8	ing of this E for high : Attache ments, no : Incomp I incompa : Materia	material / pph materials ed Supportin etes, data, an atibilities tibilities (if	oroduct req s with sulfide ng Documen nd/or analys any):	its is attached to thi ion	s form as part	of the mater	rial / prod	uct profil	e. Y that the above an
attached descomissions of tested are rep Authorized 9 Printed Nan	cription is composition composition composition contactive contact	complete a on propertie e of all mater Cory Hebert/	nd accurate as exist and the rials described. Field Enviro	to the best of my	y knowledge ar suspected haza	nd ability to rds have bee	determine en disclose	e that no	deliberate or willfi fy that the materia
CES USE ONL	Y (DO NOT	WRITE IN TI	HIS SPACE)						
Technical Ma		obba	Approved	Rejected	To the office of the control of the				
vac 4 C	0		Approved	rejected					

Approval Number: __



1.	Base Pricing (including freight):
	Management: \$0.40/gallon
	Freight: \$900.00/load
	Washout: \$150.00 each
2.	Contamination Limits (maximum limit before surcharges apply):
	Solids must be <0.75% suspended solids . B D D and II. For green 175 5165 me , Fr
	Solids must be <0.75% suspended solids; \$.01 per gallon for even 175, silds one 75% Extrats. Only gallon for press processing if solids are present.
3.	Surcharge Pricing:
	Solids greater than 0.75% - charge additional \$0.15/gallong plus \$600.00/load transportation plus current fuel surcharge
4.	Special Testing Requirements:
	Specific Gravity, tt's per gallon, 7, caustic, Sulfides titration
	70 on planta del Solitas de la Propinsiona de la Propinsiona del Propinsiona
	visual for oil and grease (NO OIL/GREASE ALLOWED!!) - No visible at kyer or oil sheen.
	Determine % caustic by titration to pH 4 or by using specific gravity and the "Handy Math Calculation" - see shared drive
	Sulfides must be low
5.	Treatment and Handling Protocol:
	CAN ONLY SHIP TO DERIDDER!!
	If solids are <0.75% and caustic >7% then load in DeRidder tank/trailer
	If solids are <0.75% and caustic <7% then put in RO tank and perfrom RO If solids are >0.75% and caustic >7% then filter and then put in DeRidder tank/trailer
	If solids are >0.75% and caustic <7% then filter first and then put in RO tank to perfrom RO
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
ı	



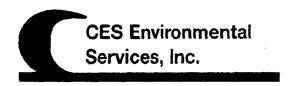
7.	Tests for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable):
í	



4904 Griggs Road Houston TX 77021

Tel. (713) 676-1460

Fax. (713) 676-1460



Material / Product Approval Letter

Date 6/4/2008

Dear Bill Glushko

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2804

Expiration Date 6/4/2010

Producer: KMCO, Inc.

Address: 16503 Ramsey Rd.

Crosby, TX 77532

Material / Product Information

Name of Material / Product SIB product

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Caustic washing of reaction product (molten sulfur and sulfurized isobutylene)

Color: idoine/amber

Odor: mercaptan/strong

pH: 9-13 typical

Physical State:

Incompatibilities: contact w/strong acids will evolve H2S

Safety Related Data/Special Handling:

Rubber boots, rubber gloves, goggles, respirator, chem suit

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. TOC of this moderial is high.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

(713) 676-1460 Fax: (713) 676-167 http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900 natt-Bouran

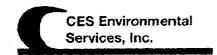
SECTION 1: Mater	ial Producer Informati	on				
Company:	KMCO, Inc.					
Address:	16503 Ramsey Rd.	16503 Ramsey Roa	d			
City, State, Zip:	Crosby TX 77532					
Contact :	Bill Glushko			Title :		
Phone No:	(281) 328-3501			Fax:	281-328-9528	
24 / HR Phone :		y - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2		-		
U.S EPA I.D No:	TXD074198961					
State I.D :	31904			SIC Code	2869	
SECTION 2: Billing	Information					
Company:	KMCO, Inc.					
Address:	16503 Ramsey Rd.	16503 Ramsey Road	t			
City, State, Zip:	Crosby TX 77532					
Contact:	Bill Glushko			Title :		
Phone No :	(281) 328-3501			Fax:	281-328-9528	
SECTION 3: General	al Description of the N	laterial / Product				
	/Product: SiB	^				
Detailed Descript	tion of the Process	Generating or Produ	icing the Materi	al / Produc	t:	
•		nolten sulfur and sulfu	_			
Physical State :	Liquid	Sludge	Pov	vder		
	Solid	Filter Cake	e 💹 Cor	nbination		
Color :		iodine/amber	Odor :		mercaptan/	strong
Specific Gravity ((Water=1) :	1.37	Density :		11.4	lbs / gal
Does this material	contain any total pher	olic compounds?	☐ Yes	✓ No		
Does this material	contain any para subs	tituted phenolic comp	ounds?	Yes	☑ No	
Layers :	Single-Phase	Multi-Pha	ase			
Container Type :	Drum	I Tote ✓	Truck	Other (exp	olain)	
Container Size :	5000					
Number Of Units	: 10					
Proper U.S. DOT	Shipping Name :	₩as	te corrosive liqui	d, basic, inc	organic (sodium hydroxid	ie)
Class: 8	UN/	NA: UN3266	PG	: 11		RQ: 1000

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids	
>150	9-13 typical	00-2500 typicamg/l	<20 mg/l	%	
Oil and Grease	TOC	Zinc	Copper	Nickel	
<100 mg/l	<2500 mg/l	na mg/l	na mg/l	na mg/l	

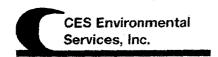
SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
water	70-90	%
sodium hydroxide	2-15	%
sulfurized salts; sulfides and solids	2-15	%
sulfurized isobutylene	0-2	%
NaHS	3-5	%

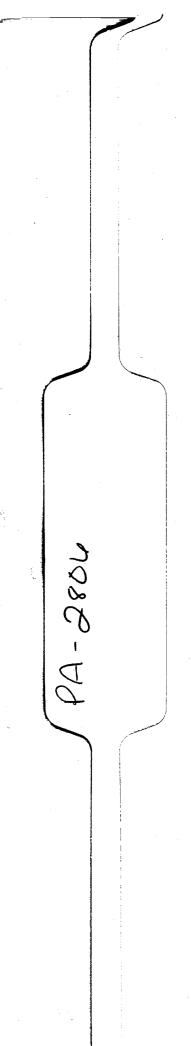
sulfurized salts; sulfides and solids		2-15	%
sulfurized isobutylene		0-2	%
NaHS		3-5	%
SECTION 5: Safety Related Data			
If the handling of this material / product requires the use of special prote	ctive equipment, p	lease explain.	
Rubber boots, rubber gloves, goggles, respirator, chem suit			
SECTION 6: Attached Supporting Documents			
List all documents, notes, data, and/or analysis attached to this form as p	oart of the material	/ product profile.	
Analytical 3/7/08			
SECTION 7: Incompatibilities			
Please list all incompatibilities (if any):			
contact w/ strong acids will evolve H2S			
SECTION 8: Material Producer's Certification	/.		
The information contained herein is based on 🗹 generator knowledge a			
above and attached description is complete and accurate to the best of n deliberate or willful omissions of composition properties exist and that a			
lisclosed. I certify that the materials tested are representative of all mate			Deell
A di Cara di C		5/27/08	
Authorized Signature: NA - Product	Date :	5/27/08	
Printed Name / Title : Bill Glusko / Env Mgr	quantum arma quantum **		
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process	Facility Information	on :
Compliance Officer: Rehullarged			
Date: 6-4-08 Status: Approved Rejected			
Approval Number : 280 4			

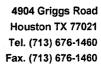


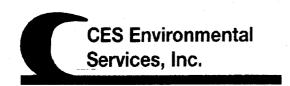
1.	Base Pricing (including freight):
	\$1.50/gol; trans \$69/hz; FSC; \$250 tre/2 washout; \$3/94
	for hed
2.	Contamination Limits (maximum limit before surcharges apply):
	material received must be a single phase that cannot have any top oil phase greater than 2 % of a second top oil phase
3.	Surcharge Pricing:
	7
4.	Special Testing Requirements:
)	PH, density, sulficies, mercaptans & eb/gal calc. Then work up
	an SIB teatment; record all info in the log book
5.	Treatment and Handling Protocol:
	specially treatment. Always have the driver pull into the bay
	On the South bay side, and have 2 samples pulled
6.	Treated Wastewater Discharge Subcategory:
	Subcategory A Subcategory B Subcategory C



7.	Tests for Product Recovered/Recycled (if applicable):
3 .	Management for Product Recovered/Recycled (if applicable);
	· · · · · · · · · · · · · · · · · · ·







Waste Pre-Acceptance/Approval Letter

Date 6/4/2008

Dear Orval W Lewis

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2806

Expiration Date 6/4/2010

Generator: Targa Midstream Services LP

Address: 10319 Hwy 146 North

Mont Belvieu, TX 77580

Waste Information

Name of Waste: spent sodium hydroxide solution with ammonia (from LSNG u

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

used in the low sulfur gasoline mercaptan conversion process of removing disulfide oil at or mercaptans, the caustic is used to scrub H2S from the stream. The ammonia is from the caustic feedstock stream.

Color: light to dark

Odor: strong ammonia

pH: 12.12.48

Physical State:

Incompatibilities: acids

Safety Related Data/Special Handling:

std ppe for high pH material with sulfides.

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. 214 or



CES Environmental Services, Inc.

4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 30948

			Information ream Services										
Address:			146 North	<u> </u>									
City:	Mont E					State:	TX		Zip:				77580
Contact:	Orval		· ·			otato.	Title:		-c.h.				77000
Phone Num			281-385-321	5			_	her.	281-385-3	3188		· · · · · · · · · · · · · · · · · · ·	
24/hr Phon		har:	201-000-021	<u> </u>			_ ' ux !tu!!	1501.	201 000 0	,,00			
US EPAID	-	JEI.	TXD9806259	74			-						
			RRGEN	77-			SIC Cod		NA				
State ID No);		nnden				_ 310 000	e:	IAW				
SECTION 2					me as /	Above							
Company:	Targa	Midst	ream Services	3									
Address:	PO Bo	x 10											
City:	Mont E	Belvie	J.			State:	TX		Zip:				77580
Contact:	Orval	Lewis					Title:		•				
Phone Num	ber:		281-385-321	5			Fax Nun	ber:	281-385-3	3188			·
		ral D	escription of				-			*			
Name of Wa			Spent sodiun				Ammonia	(Fro	m LSNG u	nit)			
	-		Process Ger		_								
			soline mercap							id/or m	ercaptans	s, the caus	stic is
used to scru	b H2S	from t	he stream. T	he ami	monia is	from the	caustic fee	edsto	ck stream.				
Physical St	ate:		Liquid Solid			Sludge Filter Cak	e		Powder Combinat	tion			
Color:	light to	dark					Odor:		strong am	monia			······································
Specific Gra	avity (w	vater=	:1):		·	1.163	<u>.</u>		Density:	9/	O lbs/	'gal	
Does this m	aterial	cont	ain any total	pheno	lic com	pounds?	J	Yes		No	•		
Does this m	aterial	cont	ain any para	substi	tuted p	henolic c	ompound	s?	J ,	Yes	□ No		
is the Waste Answer "Yes	subje " if you	ct to	the benzene te contains be	waste nzene	operati	ion NESH the SIC co	AP? (40 Code from y	FR F	Part 61, Su acility is one	bpart e of the	FF) [Yes ı:	☑ No
2812		2813	2816	3	2819	2821		2822	2823	3	2824	2833	2834
2835		2836	2841		2842	2843		2844	2851	1	2861	2865	2869
2873		2874	2876	3	2879	2891		2892	2893	3	2896	2899	2911
3312		4953	49 59)	9511								
Layers:	J		le-phase		Multi-p								
Container T	ype:		Drum 🗌	Tote	Ø.	Fruck 🗌	Other (e)	(plaii	n)				
Frequency: Quantity:	☑ We	ekly	□ Monthly		early [5-Mar	☐ One-T	ime				•		
			lous Waste" mplete, sign a					Yes Con		No . orm att	tached he	reto	

Is this a USEPA "Hazardo If "Yes", then please cor	•			· -	-	,		
Characteristic for Toxic I		☐ D004	D005	5 □ D00			☐ D 009	,
Characteristic for Toxic	Organics: D012	thru D043 (please list a	ll that apply)				
Is this an "F" or "K" Liste If "Yes", then please li			97	☐ Ye	s 🗸] No		
Is this a commercial pro 40 CFR 261.33(e) or (f)? If "Yes", then please li	·	Y		-	aste code ui	nder		My 40 days and a second a second and a second a second and a second a second and a second a second and a second a second and a second a seco
Texas State Waste Code	Number:		Recycle			-		
Proper US DOT Shipping	Name:	Sodium Hyd	droxide Solu	ıtion				
Class: 8	UN/NA:	UN1824	_PG:	II	RQ:	na		
Flash Point	р	Н	React	ive Sulfides	Reactive	Cyanides	So	lids
>150	12-1	2.48	0	<u>mg/l</u>	0	mg/l	<1	%
Oil & Grease		OC .	<u> </u>	Zinc		·		
0 <u>mg/l</u>	0	<u>mg/l</u>	0	mg/l	0	mg/l	0	mg/l
SECTION 4: Physical and								
COI	MPONENTS TA	ign and date the Underlying Hazardous Constituents Form attached hereto (Ignitable)						

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Sodium Hydroxide Sulfide Solution	98-100	%
Ammonia	0-1	%
Solids	<1	%
Sortium Hydroxide Solution W/Solfide	5-70,800	Pom
	THE STATE OF THE S	

SECTION O. AL	Borice Cupporting Decamonto	
List all document	s, notes, data and/or analysis attached to this fo	rm as part of the waste
approval package	e. MSDS	
	ints, notes, data and/or analysis attached to this form as part of the waste ge. MSDS MSDS	
Please list ALL in	compatibilities (if any):	
acids		
		below, WAS NOT PERFORMED
based upon the f	ollowing generator knowledge:	
TCLP Metals:	X	
TCLP Volatiles:	<u>**</u>	
TCLP Semi-Volat	tiles: X	
Reactivity:	X	
Corrosivity:	X	
Ignitability:	X	
.g		
SECTION 9: Was	te Receipt Classification Under 40 CFR 437 (Prta	ining to Pre-Treatment Requirements for Centralized Waste
Treatment Faciliti		
		T YES 17 NO
	, , , , , , , , , , , , , , , , , , , ,	
PLEA	ASE CHECK THE APPROPRIATE BOX. IF NO AP	PROPRIATE CATEGORY, GO TO THE NEXT PAGE.
☐ Spen	t anodizing solutions	
☐ Incine	eration wastewaters	
☐ Wast	e liquid mercury	
☐ Cyan	ide-containing wastes greater than 136 mg/l	
Clear	ning, rinsing, and surface preparation solutions from	electroplating or phosphating operations
		quipment
-		1
Oils Subcategory	: Subpart B	
☐ Used	oils	
Oil-wa	ater emulsions or mixtures	
Lubric	cants	
Coola	ants	
	aminated groundwater clean-up from petroleum soul	ces
	petroleum products	
	pill clean-up	
	water	
	wash waters from natroleum sources	

	Interceptor wastes
口	Off-specification fuels
	Underground storage remediation waste Tank clean-out from petroleum or oily sources
片	Non-contact used glycols
片	Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
	ubcategory: Subpart C Landfill leachate
片	Contaminated groundwater clean-up from non-petroleum sources
百	Solvent-bearing wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
님	Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation
님	Wastewater from organic chemical product operations
	Tank clean-out from organic, non-petroleum sources
J	
(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	
	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
	excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/L
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/L
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
SECTION 10	Additional Instructions
Copper, Nick	determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, el, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This acceptance. The generator will be responsible for the cost of the analysis.
SECTION 1	1: Generator's Certification
	tion contained herein is based on 🗵 generator knowledge and/or 🔲 analytical data.
	ify that the above and attached description is complete and accurate to the best of
	ge and ability to determine that no deliberate or willful omissions of compostion
	kist and that all known or suspected hazards have been disclosed. I certify that the
materials tes	stad are representative of eff materials described by this decriment
	540
Authorized	Signature: Date: Date:
Deimand Mon	ne/Title: Ricky Ray / Technician
Printed Nan	ne/Title: MCKY Ray / rechnician
CES USE O	NLY (DO NOT WRITE IN THIS SPACE)
	0 , α
Compliance	
Date:	6-U-0g ☐ Approved ☐ Rejected
Approval Nu	mber: <u>2806</u>



1. Base Pricing (including freight):
\$350/10ad freight Management-fee-4.50/gey
Management fee-4.501ged
2. Contamination Limit (maximum limit before surchages apply):
Solids - < 19₀
3. Surcharge Pricing:
and five solids > 190 and stoppel
4. Special Testing Requirements:
Test for pH, donsity, Salfides, Sodium Hydroxide %.
5. Treatment and Handling Protocol:
Removal of the Ammonia gas by air sparging. Capture the amnonia gasses
Removal of the Ammonia gas by air sparging. Capture the amnonia gasses into a water souther w/ a pH of about 4.0. Final treated Caustic-Sailfide liquidiga good NaSH product. The amnoniated scrubber
water will need to process to system 1.
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



NA NA	Recovered/Recycled ((п аррисавіе):	
8. Management for	Product Recovered/Re	ecycled (if applicable)	
NA			

Interim Report of Analysis 2008-006911-DRPK

Intertek Caleb Brett 1114 Seaco Avenue Deer Park, TX 77536 Ph: (713) 844 - 3200 Fax: (713) 844 - 3330

Client: Targa Resources, Inc.

Date Requested: 05/21/2008

Contact: Mr. Orval Lewis

Date Received: 05/21/2008

Client Ref. No.:

Collected By: Client

Client Sample Description	Product	Sample ID
Spent Caustic Trailer From LSNG. 05/21/08	Water	2008-006911-DRPK-001

Sample Results

Sample ID: 2008-006911-DRPK-001

Date Sampled: 05/21/2008

Sample Description: Spent Caustic Trailer From LSNG. 05/21/08

Date Received: 05/21/2008

Product: Water

Date Analyzed: 05/21/2008

Method	Test	Results	Units
ASTM D5623	H2S	19.2	ppm (Wt)
	cos	5.4	ppm (Wt)
	Carbon Disulfide	33.0	ppm (Wt)
	Methyl Mercaptan	<0.1	ppm (Wt)
	Ethyl Mercaptan	2.5	ppm (Wt)
	Isopropyl Mercaptan	<0.1	ppm (Wt)
	n-Propyl Mercaptan	<0.1	ppm (Wt)
	tert-Butyl Mercaptan	<0.1	ppm (Wt)
	sec-Butyl Mercaptan	<0.1	ppm (Wt)
	Isobutyl Mercaptan	<0.1	ppm (Wt)
	n-Butyl Mercaptan	<0.1	ppm (Wt)
	Ethyl Methyl Sulfide	<0.1	ppm (Wt)
	Thiophene	<0.1	ppm (Wt)
	Tetra-Hydro Thiophene	<0.1	ppm (Wt)
	2-Methyl Thiophene	<0.1	ppm (Wt)
	3-Methyl Thiophene	<0.1	ppm (Wt)
	Dimethyl Sulfide	<0.1	ppm (Wt)
	Diethyl Sulfide	<0.1	ppm (Wt)
	Dimethyl Disulfide	<0.1	ppm (Wt)
	Diethyl Disulfide	<0.1	ppm (Wt)
	Benzothiophene	<0.1	ppm (Wt)

Interim Report of Analysis 2008-006911-DRPK

Sample ID: 2008-006911-DRPK-001

Date Sampled: 05/21/2008

Sample Description: Spent Caustic Trailer From LSNG. 05/21/08

Date Received: 05/21/2008

Product: Water

Date Analyzed: 05/21/2008

Troduct.	VY 4.601	Date Analyzeu. 03/21/2000			
Method	Test	Results	Units		
HTM_G35	NOTE	As nitrogen			
	Ammonia in LPG	10739	ppm (Wt)		
	Unknown 1	601	ppm (Wt)		
	Unknown 2	242	ppm (Wt)		
	Unknown 3	103	ppm (Wt)		

This report has been reviewed for accuracy, completeness, and comparison against specifications when available. The reported results are only representative of the samples submitted for testing and are subject to confirmation upon completion of the final report. This report shall not be reproduced except in full without written approval of the laboratory.

Laboratory Review	Reported By
Date:	Date:

Intertek Caleb Brett

5/30/08 02:43 PM

1114 Seaco Avenue, Deer Park, TX 77536 Ph: (713) 844 -3200, Fax: (713) 844 - 3330, Email: dptechctr@intertek.com, www.intertek-cb.com



Material Safety Data Sheet Sodium hydrosulfide solution

1.1	Product Name	Sodium hydrosulfide solution
	Chemical Family	Inorganic salt solution
	Synonyms	KI-300 depressant, NaHS, sodium hydrogen sulfide
	Formula	
1.2	Manufacturer	Tessenderlo Davison Chemicals
		1916 Farmerville Highway
		Ruston, Louisiana 71270
	Information	
1.3	Emergency Contact	(800) 877-1737 (Tessenderlo Kerley)
	• •	(800) 424-9300 (CHEMTREC)

2.1 Chemical Ingredients (% by wt.)

Sodium hydrosulfide

CAS #:16721-80-5

20-45%

Water

CAS #:7732-18-5

55-80%

(See Section 8 for exposure guidelines)

HAZARDS IDENTIFICATION Section 3:

NFPA:

Health - 3

Flammability -

Reactivity - 1

EMERGENCY OVERVIEW

Warning: Solution is highly alkaline Contains hydrogen sulfide, a highly toxic gas. Eye contact will cause marked eye irritation and possibly severe corneal damage. Skin contact will result in irritation and possible corrosion of the skin. Ingestion will irritate/burn mouth, throat and gastrointestinal tract. Contact with stomach acid will cause hydrogen sulfide vapors to be released. Heating or acid will cause hydrogen sulfide gas to evolve.

Section 3: HAZARDS IDENTIFICATION, Cont.

3.1 POTENTIAL HEALTH EFFECTS

EYE: Contact with the eyes will cause marked eye irritation and possibly severe corneal damage.

SKIN CONTACT: Contact with the skin will cause skin irritation or burning sensation. Prolonged contact will result in corrosion of the skin.

SKIN ABSORPTION: Absorption is unlikely to occur.

INGESTION: Ingestion will result in severe burning and corrosion of mouth, throat and the gastrointestinal tract. If the ingested material contacts stomach acid, highly toxic hydrogen sulfide gas will be evolved.

INHALATION: Product solution and vapors contain highly toxic hydrogen sulfide gas. Exposure to this gas causes, headaches, nausea, dizziness and vomiting. Continued exposure can lead to loss of consciousness and death..

CHRONIC EFFECTS/CARCINOGENICITY:

Not listed as a carcinogen by NTP, IARC or OSHA.

Section 4: FIRST AID MEASURES

- **4.1 EYES:** Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to insure thorough flushing of the entire area of the eye. Obtain immediate medical attention.
- **4.2 SKIN:** Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Obtain immediate medical attention
- **4.3 INGESTION:** DO NOT INDUCE VOMITING. If victim is conscious, immediately give 2 to 4 glasses of water. If vomiting does occur, repeat fluid administration. Obtain immediate medical attention.
- **4.4 INHALATION:** Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start mouth to mouth resuscitation. If heart has stopped beating, external heart massage should be applied. Obtain immediate medical attention.

Section 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

FLASH POINT: Not flammable

METHOD USED: NA

5.2 FLAMMABLE LIMITS

Hydrogen sulfide

LFL: 4%

UFL: 44%

- 5.3 EXTINGUISHING MEDIA: Water spray or foam or as appropriate for combustibles involved in fire.
- **5.4 FIRE & EXPLOSIVE HAZARDS:** Solution is non-flammable. However if these solutions are exposed to heat or acids, hydrogen sulfide will be released and may form explosive mixtures with air (see above).

Keep containers/storage vessels in fire area cooled with water spray. Heating may cause the release of hydrogen sulfide vapors.

Section 5: FIRE FIGHTING MEASURES (Cont.)

5.5 FIRE FIGHTING EQUIPMENT: Because of the possible presence of toxic gases and the corrosive nature of the product, wear self-contained breathing apparatus, pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

- **6.1 Small releases:** Confine and absorb small releases on sand earth or other inert absorbent. Oxidize residual reactive sulfides with a weak (3-5%) hydrogen peroxide solution.
- **6.2 Large releases:** Wear proper protective equipment. Confine area to qualified personnel. Shut off release if safe to do so. Dike spill area to prevent runoff into sewers, drains (potential explosive mixtures of hydrogen sulfide in confined spaces) or surface waterways (potential aquatic toxicity). Recover as much of the solution as possible. Treat remaining material as a small release (above).

Section 7: HANDLING and STORAGE

- **7.1 Handling:** Wear proper protective equipment (See Section 8). Avoid breathing product vapors. Avoid contact with skin and eyes. Use only in a well ventilated area. Dilute product only in enclosed containers. Wash thoroughly after handling.
- **7.2 Storage:** Store in well ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store tote and smaller containers out of direct sunlight at moderate temperatures [<80° F (27° C)]. (See Section 10.4 for materials of construction)

Section 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

- **8.1 RESPIRATORY PROTECTION:** If working near open container or storage vessel opening or open tank truck dome cover, wear self-contained breathing apparatus, pressure demand, MSHA/NIOSH (approved or equivalent).
- **8.2 SKIN PROTECTION:** Neoprene rubber gloves, chemical suit and boots should be worn to prevent contact with the liquid. Wash contaminated clothing prior to reuse. Contaminated leather shoes cannot be cleaned and should be discarded.
- 8.3 EYE PROTECTION: Chemical goggles and a full face shield.
- 8.4 EXPOSURE GUIDELINES:

OSHA

ACGIH

Hydrogen sulfide

TWA STE

10 ppm (ceiling)

8.5 ENGINEERING CONTROLS: Use adequate exhaust ventilation to prevent inhalation of product vapors. Where feasible scrub process or storage vessel vapors with caustic solution. Maintain eyewash/safety shower in areas where chemical is handled.

Section 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 APPEARANCE:

Yellow to dark green liquid.

9.2 ODOR:

Strong hydrogen sulfide (rotten egg) odor.

9.3 BOILING POINT:

253 °F(122.8 °C) - 269 °F (131.7 °C) 17 mm Hg @ 68 °F (20 °C)

9.4 VAPOR PRESSURE:

1.17

9.5 VAPOR DENSITY: (Air = 1.0) 9.6 SOLUBILITY IN WATER:

Complete

9.7 SPECIFIC GRAVITY:

1.152 - 1.303 (9.6 - 10.9 lbs/gal)

9.8 FREEZING POINT:

0° F (-17.8° C) - 20%

56° F (13.3° C) - 45%

9.9 pH:

11.5 - 12.5

9.10 VOLATILE:

Not applicable

Section 10: STABILITY and REACTIVITY

10.1 STABILITY: This is a stable material

10.2 HAZARDOUS POLYMERIZATION: Will not occur.

- 10.3 HAZARDOUS DECOMPOSITION PRODUCTS: Heating this product will evolve hydrogen sulfide. Fire conditions will also cause the production of sulfur dioxide. Hydrogen sulfide (4-44%) may form flammable mixtures with air.
- 10.4 INCOMPATIBILITY: Acids will cause the release of highly toxic hydrogen sulfide. Sodium hydrosulfide solution is not compatible with copper, zinc, aluminum or their alloys (i.e. bronze, brass, galvanized metals, etc.). Corrosive to steel above 150° F (65.5° C). These materials of construction should not be used in handling systems or storage containers for this product. (SEE Section 7.2, Storage)

Section 11: TOXICOLOGICAL INFORMATION

11.1 ORAL: Data not available

11,2 DERMAL: Data not available

11.3 INHALATION: INH-RAT LC₅₀: 444 ppm (hydrogen sulfide)

INH-MOUSE LC₅₀: 1,500 mg/m³ 18 minutes INH-RAT LC₅₀: 1,500 mg/m³ 14 minutes

11.4 CHRONIC/CARCINOGENICITY: No evidence available

11.5 TERATOLOGY: Data not available

11.6 REPRODUCTION: Data not available

11.7 MUTAGENICITY: Data not available

Section 12: **ECOLOGICAL INFORMATION**

Static acute 96 hour-LC₅₀ for mosquito fish is 206 mg/L. (Tl_m - fresh water)

LC₅₀ fly inhalation 1,500 mg/m³, 7 minutes

TL_m Gammarus 0.84 mg/L, 96 hours (hydrogen sulfide)

TL_m Ephemera 0.316 mg/L, 96 hours (hydrogen sulfide)

TL_m Flathead minnow 0.071 – 0.55 mg/L @ 6-24°C, 96 hour flow through bioassay (hydrogen sulfide)

TL_m Bluegill 0.0090 - 0.0140 mg/L @ 20-22°C, 96 hour flow through bioassay (hydrogen sulfide)

TL_m Brook trout 0.0216 - 0.0308 mg/L @ 8-12.5°C, 96 hour flow through bioassay (hydrogen sulfide)

DISPOSAL CONSIDERATIONS Section 13:

If released to the environment for other than its intended purpose, this product contains some reactive sulfides which may be in sufficient quantity to meet the definition of a D003, hazardous waste.

Section TRANSPORT INFORMATION 14:

14.1 DOT Shipping Name: Corrosive liquids, toxic, n.o.s.

14.2 DOT Hazard Class:

8

14.3 UN/NA Number:

UN2922

UN2949 (IMDG - over water)

14.4 Packing Group:

14.5 DOT Placard:

Corrosive

14.6 DOT Label(s):

Corrosive

Toxic

14.7 IMO Shipping Name:

Sodium hydrosulphide solution

14.8 RQ (Reportable Quantity):

5,000 lbs (2268 Kg) 100% basis [2,604 gal (20%) 1,019 gal (45%)]

14.9 RR STCC Number:

28-123-33/49-352-04 (international)

REGULATORY INFORMATION Section 15:

15.1 OSHA: This product is listed as a hazardous material under criteria of the Federal

OSHA Hazard Communication Standard, 29 CFR 1910.1200.

15.2 SARA TITLE III: a.

EHS (Extremely Hazardous Substance) List:

No

Section 15: REGU	LATORY INFORMATION (Cont.)		
b.	Section 311/312, (Tier I,II) Categories:	Immediate (acute) Fire Sudden release Reactivity Delayed (chronic)	Yes Yes No Yes No
С.	Section 313 (Toxic Release Report-For	m R):	No
d.	TPQ (Threshold Planning Quantity):		No
15.3 CERCLA/SUPERFUND:	RQ (Reportable Quantity)		5,000 lbs (2270 Kg)
15.4 TSCA (Toxic Substance C	Control Act) Inventory List:		Yes
15.5 RCRA (Resource Conser	vation and Recovery Act) Status:		D003 (See Section 13)
15.6 WHMIS (Canada) Hazard	Classification:		E, D1
15.7 DOT Hazardous Material:	Yes		
15.8 CAA Hazardous Air Pollut	ant (HAP)		No

Section 16: OTHER INFORMATION

REVISIONS: The entire MSDS was reformatted to comply to ANSI Standard Z400.1-

1993.

Revised Sections 1.1, 8.3, 11, 12, 5/7/02 Revised pH range in Section 8, 6/19/02 Revised shipping info & RQ data, 1/15/03

THE INFORMATION PUBLISHED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN COMPILED FROM OUR EXPERIENCE AND OSHA, ANSI, NFPA, DOT, ERG, AND CHRIS. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF NECESSARY SAFETY PRECAUTIONS. WE RESERVE THE RIGHT TO REVISE MATERIAL SAFETY DATA SHEETS PERIODICALLY AS NEW INFORMATION BECOMES AVAILABLE.

12825 Afton Chemical Corporation @ Delta Chamical



CES Environmental Services, Inc.

4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 6/13/2008

Dear Ed Cox

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2825

Expiration Date 6/12/2010

Producer: Afton Chemical Corporation @ Delta Chemical

Address: 334 Tidal Road

Deer Park, TX 77536

Material / Product Information

Name of Material / Product Afton Fuel Additive - eval ash

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Unused product

Color: light amber

Odor: amine like

pH: 2-12

Physical State:

Incompatibilities: strong oxidizing and reducing agents

Safety Related Data/Special Handling:

use chemical resistant gloves, suit, boots, safety goggles

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. Reviewer Parporworkis

OK. There is not a generator's

4904 Griggs Road

Signature.

Phone: (713) 676-1

http://www.

CES Environmental Services, Inc.

Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Mate	erial Producer Inform	nation			
Company:		orporation @ Delta	Chemical		
Address:	334 Tidal Road				
City, State, Zip:	Deer Park, TX 775	536			
Contact:	Tim Menard		Title:		
Phone No:	281-680-4113		Fax No:	281-479-9842	
24/hr Phone:	713-819-3172				
U.S. EPA I.D. No:					
State I.D.			SIC Code:	-	
SECTION 2: Billin	ng Information – 🔲 S	Same as Above			
Company:	Afton Chemical Corp				
Address:	501 Monsanto Ave				
City, State, Zip:	Suget, Illinois 62201				
Contact:	Ed Cox	Ti	tle:		
Phone No:	1.618-583-1078	Fa	x No: 618-583-13	388	
SECTION 3: Gene	ral Description of the	e Material / Produc	et		
	Product: Afton Fuel		-		
			he Material / Produc	t: <u>Unused product</u>	
Physical State:	⊠ Liquid □ Solid	☐ Sludge ☐ Filter Cake	☐ Powder ☐ Combinat	tion	
Color: Light Amber	(Odor: <u>Amine-like</u>			
Specific Gravity (w	ater=1): <u>.9</u>	Density: 7.5 lbs	/gal		
Does this material c	ontain any total phe	nolic compounds?	☐ Yes ⊠ No		
Does this material o	ontain any para subs	stituted phenolic co	ompounds? 🗌 Yes	⊠ No	
Layers:	⊠ Single-phase	Multi-	phase		
Container Type: Container Size:	☑ Drum 55 gal	Tote	Truck	Other (explain)	
Frequency: Number of Units (co	Weekly Dontainers):	Pandut	⊠ Quarterl :		
Proper U.S. DOT S	hipping Name:	Combustible	Liquids, n.o.s., (sulfur	rized olefins), PG III	
Class: 3	UN/N	A. NA 1003	PG:	III RO: 10	20

Flash Point	рH	N/A	N/A	Solids
<u>>140</u>	<u>2-12</u>			<u>0</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel
<u>100</u> mg/l	<u>0</u> mg/l	<u>0</u> mg/l	<u>O</u> mg/l	<u>O</u> mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units	
The material / product consists of the following materials	Ranges are acceptable	or %	
Hitec Fuel additive	100%	%	
		%	
		%	
-		%	
		%	

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain. use chemical resistant gloves, suit and boots, as well as safety goggles

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. MSDS

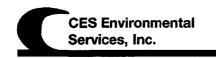
SECTION 7: Incompatibilities

Please list all incompatibilities (if any): Strong oxidizing and reducing agents

SECTION 8: Material Producer's Certification

omissions of composition properties tested are representative of all material		cted hazards have been disclosed. I certify that the	materials
Authorized Signature:	na	Date: 6-12-08	
Printed Name/Title:	o signature required		
CES USE ONLY (DO NOT WRITE IN TH	IS SPACE)		
Technical Manager:	Rhya		
Date: 6-12-08	Approved Rejected		
Approval Number: 2825			

The information contained herein is based on \boxtimes generator knowledge and/or \square analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	Pay \$.15/gal. no trans charges
	·
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
٥.	Surenarge Friends.
4.	Special Testing Requirements:
1	
5.	Treatment and Handling Protocol:
Į	
6.	Treated Wastewater Discharge Subcategory:
 [
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
1	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. Tests for Product Recovered/Recycled (if applicable):

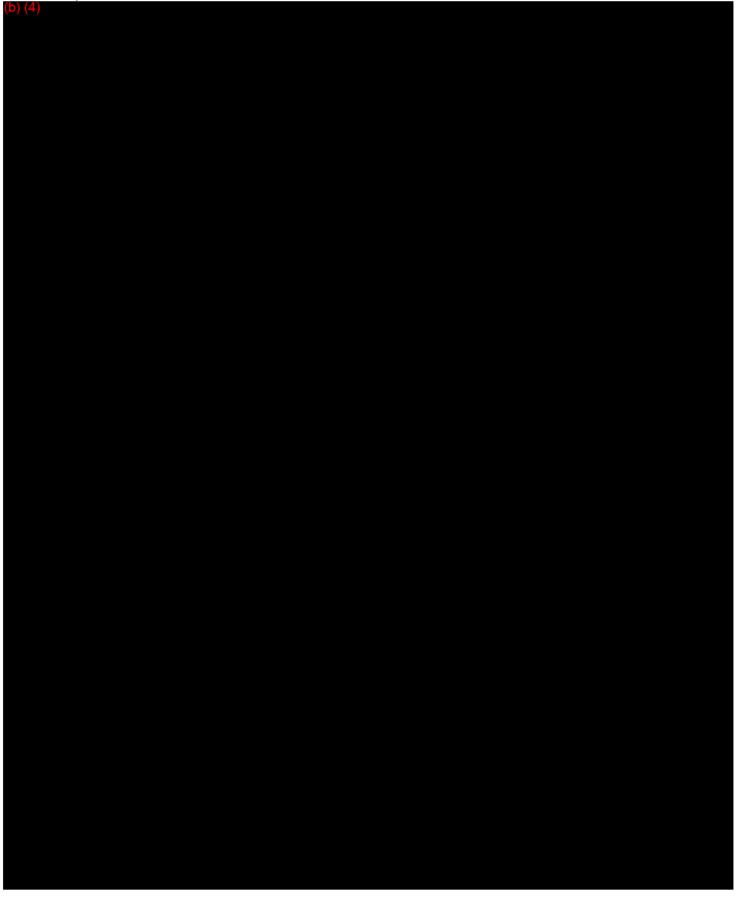
evaluate each product type shipped in this profile group for ash and record results (to eliminate such extensive testing for future loads). Catches sample Record the sample in forestion in the product sook (product type also-name on MSOS) and run the ash. Report this to Gary Peterson.

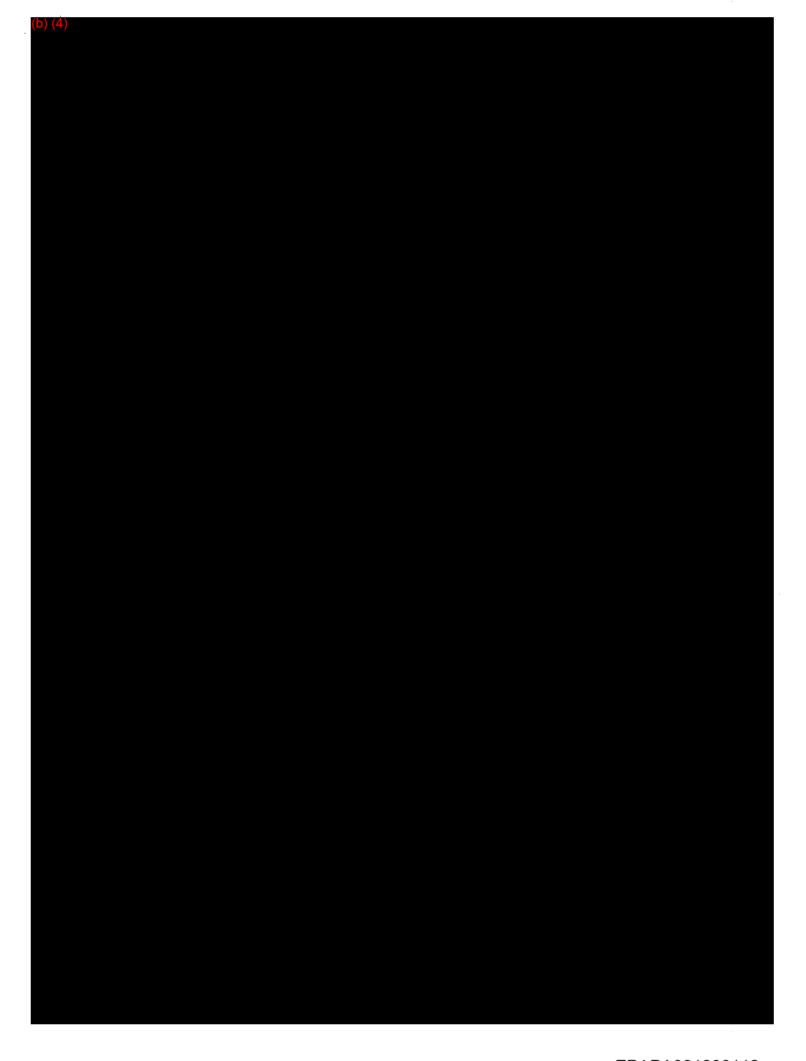
8. Management for Product Recovered/Recycled (if applicable);

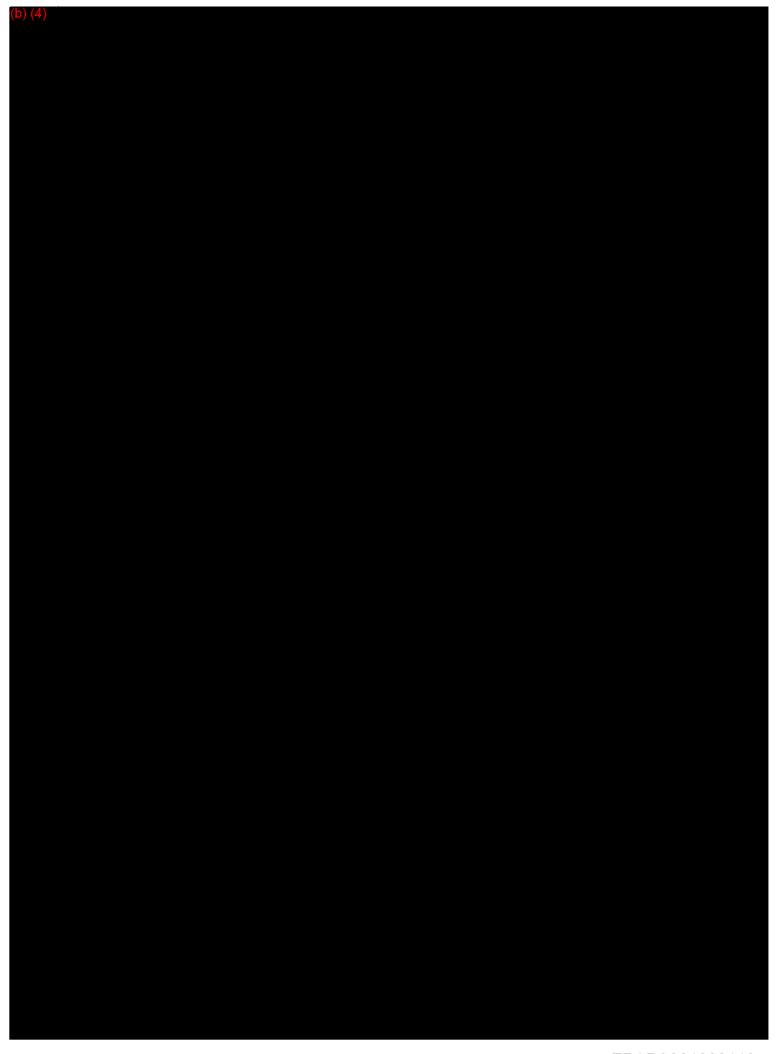
Meet with Joy with ash results to determine whether to blend product or ship with CES Fuels to Energis. Catch a sample from the drums for each Product type. Lahel a bring to the lab for ach testing.



Material Safety Data Sheet











*** END OF MSDS ***



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Joy Baker

Cc: Gary Lenertz, Gary Peterson, Bo Cumberland

Date: 04/01/08

From: Miles Root

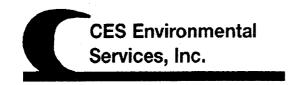
Lab Memo: 08-052

Subject: Afton Chemical Evaluations 0308-121 – 125

Samples of viscosity improvers from Afton Chemical have been tested for compatibility with our black oil and light ends. Ash analyses have also been determined on two of the samples by an outside lab. All of the materials were compatible with the requested testing with either light ends or black oil. The HiTEC 9227 has a very high ash at 13.1 wt%. This entire spectrum of material is available in a lot of approximately 1000 drums that are partially filled with the various evaluation materials. All of the samples look clean and since they are in drums are able to be blended as needed to reduce the high ash content in the one stream. A summary of the test results is below.

A	Afton Chemicals Evals 0308-121 thru 125			
Eval #	Sample ID	Compatibility	Ash, wt%	
0308-121	HiTEC 9227	Black Oil	13.1	
0308-122	HiTEC 343	Black Oil	1.7	
0308-123	HiTEC 5777	Light Ends		
0308-124	HiTEC 6560	Black Oil		
0308-125	HiTEC 5710A	Light Ends		

PA-2829



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 6/13/2008

Dear Ed Cox

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2829

Expiration Date 6/12/2010

Producer: Afton Chemical Corporation @ Delta Chemical

Address: 334 Tidal Road

Deer Park, TX 77536

Material / Product Information

Name of Material / Product Afton VI Improver - Polymer Based

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Unused product

Color: light amber

Odor: amine like

pH: 2-12

Physical State:

Incompatibilities: strong oxidizing reducing agents

Safety Related Data/Special Handling:

use chemical resistant gloves, suit and boots, safety goggles

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. Reviewed legenwork Ok - No Benerator Signature

CES Environmental Services, Inc.

Houston, TX 77021

Phone: (713) 676-1460 Fax: (713) 676-1676 http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 ISWR No: 30900

U.S. EPA ID No: TXD008950461

4904 Griggs Road

SECTION 1: Mate	erial Producer Information		
Company:	Afton Chemical Corporation @ De	lta Chemical	•
Address:	334 Tidal Road	200 01101111001	
City, State, Zip:	Deer Park, TX 77536		
Contact:	Tim Menard	Title:	
Phone No:	281-680-4113	Fax No:	281-479-9842
24/hr Phone:	713-819-3172	T WAT 110.	401 117 7012
U.S. EPA I.D. No:	110 010 011	***************************************	
State I.D.		SIC Code:	
State I.D.		Sie coue.	
	ng Information - Same as Above		
Company:	Afton Chemical Corporation		
Address:	501 Monsanto Ave		
City, State, Zip:	Suget, Illinois 62201		
Contact:	Ed Cox	Title:	
Phone No:	1.618-583-1078	Fax No: 618-583-138	8
Name of Material /	Product: Afton VI Improver - Polymon of Process Generating or Producin	er Based	Unused product
Physical State:	☑ Liquid☐ Sludge☐ Solid☐ Filter Ca	Powder Re Combination	on .
Color: Light Amber	Odor: Amine-lik	<u>e</u>	
Specific Gravity (wa	rater=1): <u>0.9</u> Density: <u>7.5</u>	lbs/gal	
Does this material c	contain any total phenolic compound	s? 🗌 Yes 🛮 No	
Does this material c	contain any para substituted phenolic	compounds? Yes	⊠ No
Layers:	⊠ Single-phase ☐ Mul	lti-phase	
Container Type: Container Size:	☑ Drum ☐ Tote 55 gal	Truck	Other (explain)
Frequency: Number of Units (co	· — · · · · · · · · · · · · · · · · · ·	Quarterly	☐ Yearly
	Produt		
Proper U.S. DOT SI	hipping Name: Non RCR	A/Non DOT Regulated Ma	aterial
Class: NA	UN/NA: NA	PG: NA	A RQ: NA

Flash Point	pН	N/A	N/A	Solids
>200	2-12			<u>0</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel
<u>100</u> mg/l	<u>0</u> mg/l	<u>O</u> mg/I	<u>0</u> mg/l	<u>0</u> mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %	
Hitec Viscosity Improver - Polymer based	100%	%	
		%	
		%	
		%	
	·	%	

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain. use chemical resistant gloves, suit and boots, as well as safety goggles

SECTION 6: Attached Supporting Documents

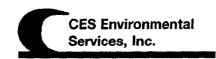
List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. \underline{MSDS}

SECTION 7: Incompatibilities

Please list all incompatibilities (if any): Strong oxidizing and reducing agents

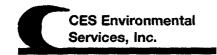
SECTION 8: Material Producer's Certification

The information contained attached description is commissions of composition tested are representative of	mplete and accurate to t properties exist and that	the best of my later all known or su	knowledge and ability spected hazards have b	to determine that no	deliberate or willful
Authorized Signature:	1	a	D	ate: <u>6-1</u> 2-08	. · · · · ·
Printed Name/Title:	no signature rec	quir <u>ed</u>			
CES USE ONLY (DO NOT WR	•				
Technical Manager:	blub Tang	a			
Date: 6-12-08	Approved	Rejected			
Approval Number:	2829				



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	Pay \$.15/gal. no trans charges
2	Contomination Limits (maximum limit hefone quadronges anniv).
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
1	
ı	
4.	Special Testing Requirements:
Ì	
5.	Treatment and Handling Protocol:
-	
L	
5 .	Treated Wastewater Discharge Subcategory:
.• [Transfer more in the property of the
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
	_ Substitute _ Sub



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

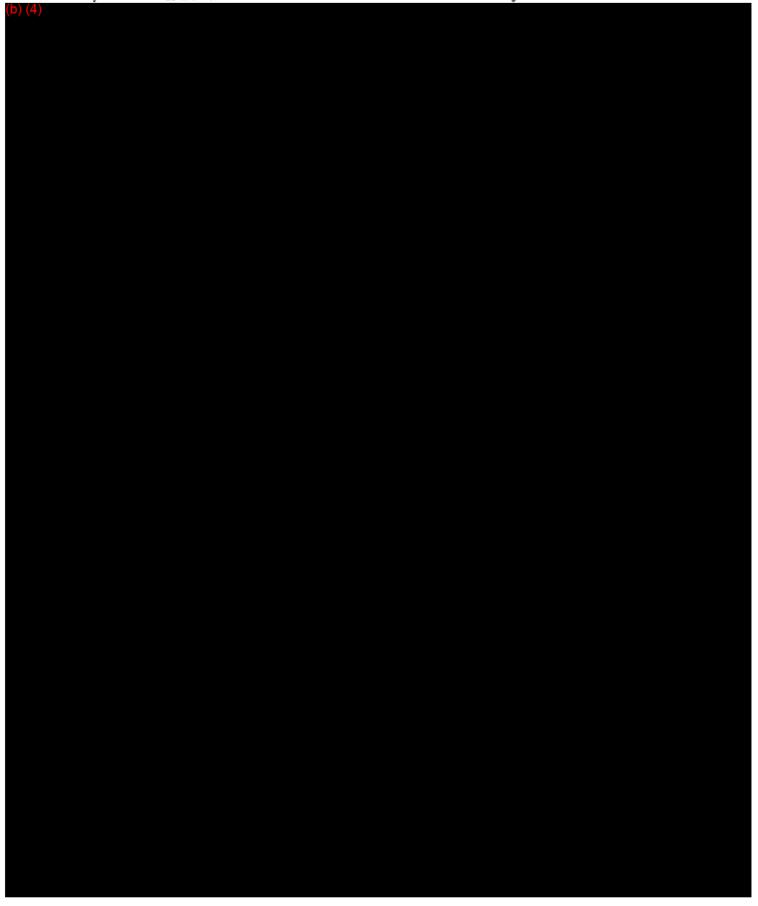
•	Tests for Product Recovered/Recycled (if applicable):
	Check for blending compatibility with other line of viscosity improver from Afton. They recommended that we not blend the 2 lines of viscosity modifiers.
	Management for Product Recovered/Recycled (if applicable);

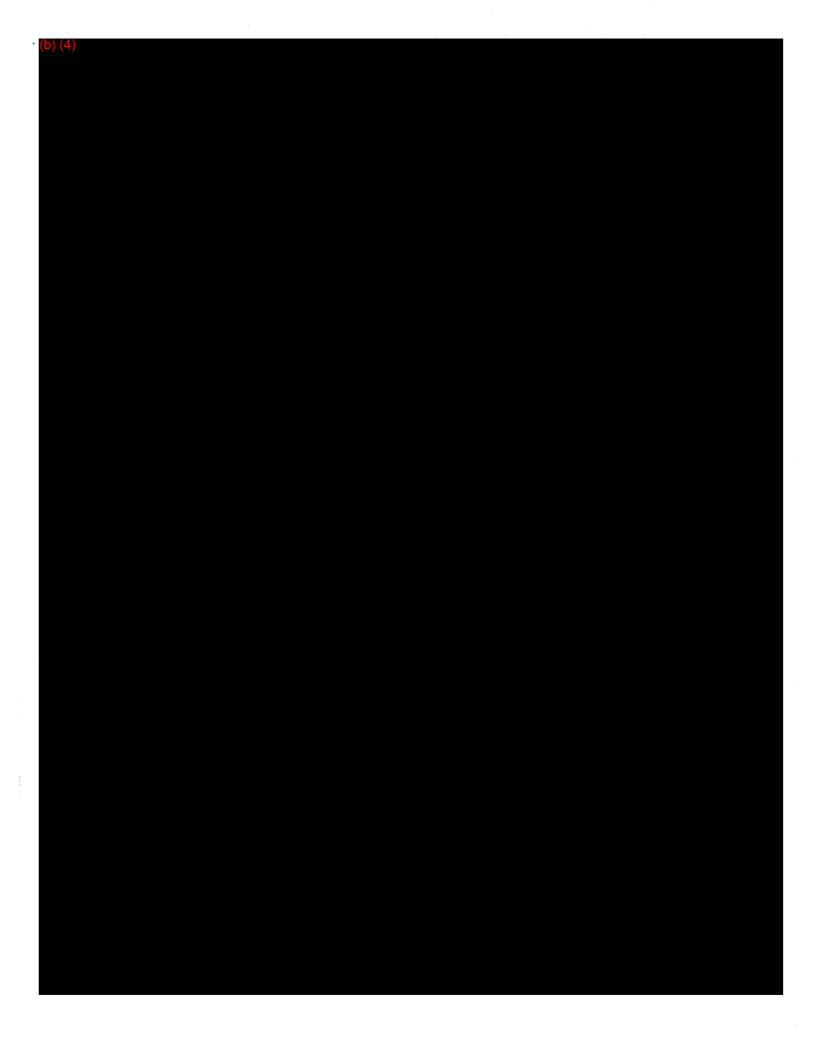
8. Management for Product Recovered/Recycled (if applicable);

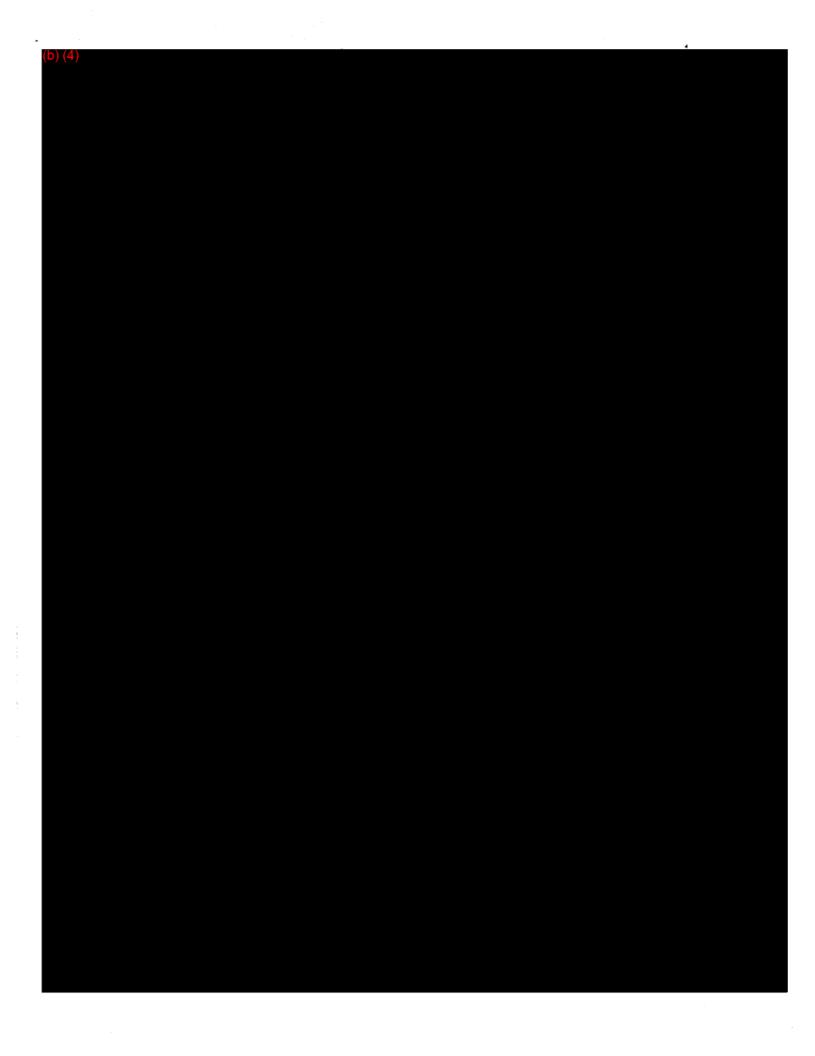
Product cannot be sold as viscosity modifier per generator. Must blend with LIGHT ENDS. Do not blend with clay-based viscosity improver from Afton if blending test gives negative results. The drums should be deheaded and bulked in ISO container or tank. Scrape drums after bulking to remove product completely before shredding drums.

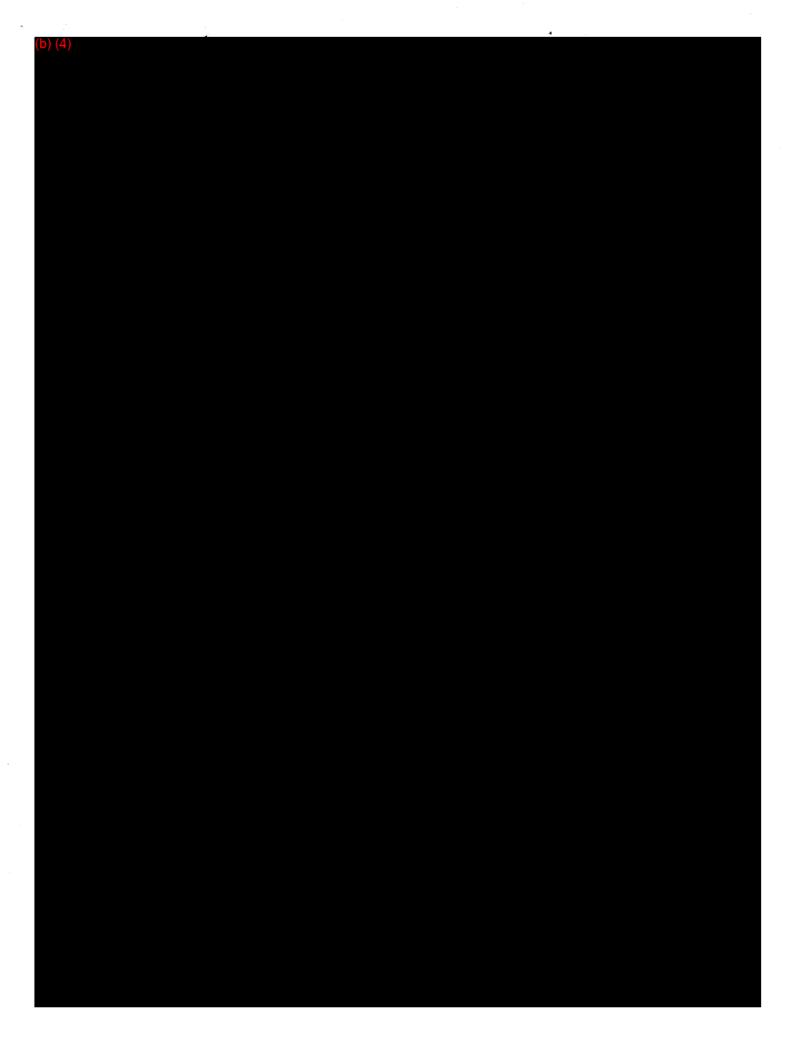


Material Safety Data Sheet

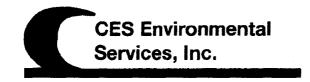








*** END OF MSDS ***



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Joy Baker

Cc: Gary Lenertz, Gary Peterson, Bo Cumberland

Date: 04/01/08

From: Miles Root

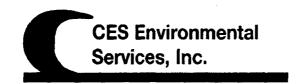
Lab Memo: 08-052

Subject: Afton Chemical Evaluations 0308-121 – 125

Samples of viscosity improvers from Afton Chemical have been tested for compatibility with our black oil and light ends. Ash analyses have also been determined on two of the samples by an outside lab. All of the materials were compatible with the requested testing with either light ends or black oil. The HiTEC 9227 has a very high ash at 13.1 wt%. This entire spectrum of material is available in a lot of approximately 1000 drums that are partially filled with the various evaluation materials. All of the samples look clean and since they are in drums are able to be blended as needed to reduce the high ash content in the one stream. A summary of the test results is below.

Afton Chemicals Evals 0308-121 thru 125						
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0308-123	HiTEC 5777	Light Ends				
0308-124	HiTEC 6560	Black Oil				
0308-125	HiTEC 5710A	Light Ends				

Scetex Ltd



Waste Pre-Acceptance/Approval Letter

Date 6/17/2008

Dear Kelly Aimes

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2837

Expiration Date 6/17/2010

Generator: Seatex Ltd **Address:** 445 Tx-36

Rosenberg, TX 77471

Waste Information

Name of Waste: e-core@CARBO-LIQ Plus-10

TCEQ Waste Code #: CESQ2191

Container Type:

Detailed Description of Process Generating Waste:

Off-spec

Color: hazy liquid

Odor: slight

pH: 6.5-7.5

Physical State:

Incompatibilities: na

Safety Related Data/Special Handling:

na

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

Name of weste: (See MSDS) Name



4904 Griggs Road, Houston, TX 77021 Phone: (713) 676-1460 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit Number: 30948

			U.S.	EPA ID N	ımber: TXC	000895046	1 ISWR I	iumbe	er: 30900				
SECTION 1;	Gener	ator in	formati	ion									
Company:	SEATE		WITHIAL	<u>vii</u>									
Address:	445 T)										-		
City:	ROSEN				····	State:	TX		Zip:			77471	
Contact:		AIMES					Title:		_ b.		-		
Phone Num		, ,,,,,,,	,	7-5340				nber:	713-357-	5301		~	
24/hr Phon		ber:		7-5300					, 20 00 /		*		
US EPA ID N			TXCESC										
State ID No:	:	•	CESQG	<u> </u>			SIC Code	<u> </u>					
		•											
SECTION 2:	Billing	Inform	ation -		Same as	<u>Above</u>							
Company:	CKG SI	ERVICE	5								_	_	
Address:	10707	HONE	A EGYPT	ROAD									
City:	MONT	GOME	RY			State:	TX		Zip:			77316	
Contact:	ZAC M	CKAUC	HAN				Title:		PRESIDEN	TS			
Phone Num	ber:		281-54	1-4829			Fax Nun	nber:	936-756-1	1226			
SECTION 3;	Genera	l Desc	<u>ription</u>	of the W	<u>aste</u>								
						***	٠ ١ .	_		1	, ,	DI.	٠.
Name of Wa		-		SECRET		e MSU	<u>ے (ک</u>		re(R)	ar po	1 - Chd	rius-	lo
Detailed De	scriptio	n of Pi	ocess G	ieneratir	ig Waste:		OFF SPE	<u> </u>					
											<u> </u>		
													
Mb						Ćh, das			Davidas				
Physical Sta	te:		Liquid Solld		닏	Sludge Filter Cal	100	H	Powder Combinat				
			Dila		لسا	riter ca	ke .	Ц	Comminar	w			
Color:	HAZY L	מוויטו					Odor:		SLIGHT				
COIOI.	117021	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				-							
Specific Gra	vity (w:	iter=1)	:	N	D				Density:	ND	lbs	i/gal	
	-,67 (•	<u>;2</u>								, 0	
Does this ma	aterial d	ontair:	anv to	tal phen	olic comp	ounds?		Yes	[7]	No			
							•						
Does this ma	aterial d	contair	any ba	ira subst	ituted ph	enolic con	?sbnuoon		П	Yes	☑ No)	
			,						_		_		
Is the Waste	subjec	t to the	e benze	ne waste	operatio	n NESHAI	?? (40 CFR F	art 6	1, Subpart	FF)] Yes	☑ No
Answer "Yes	-										following	:	
2812	-	2813		2816	2819	282	21	2822	2823	3	2824	2833	283
2835		2836		2841	2842	284	13	2844	285	1.	2861	2865	286
2873		2874		2876	2879	289	91	2892	2893	3	2896	2899	291
3312		4953		4959	9511								
					•								
Layers:	IJ	Single	-phase	(i-phase							
•		_	• •			•							
Container Ty	ype:		Drum	☑ 10	ote 🗌	Truck [Other (e	xplair	1)				
Frequency:	□ w.	akhu [Mo	nthis 🗀	Voorbe	[] One	Time						
Quantity:		-			,								

	USEPA "Hazar s", then please	•		L.3?	_ v	es [☑ No		
	", le it: eristic for Toxid	D001 (Ignit	able) [D00 D01		00 🗆 20	□ D003 (Re 06 □ D00	•	<u> </u>	•
Characte	eristic for Toxic	COrganics: D0:	(2 thru D043	(please list	tall that apply)				
	"F" or "K" Lis ", then please			ie?		es [Z No		- -
40 CFR 2	commercial pr 61.33(e) or (f) ", then please	ř	Ē		y a "U" or "P" \ ☑ No ——————	waste code u	ınder		_
Texas Sta	ate Waste Cod	e Number:		CESQ21	<u> </u>		· 		
Proper U	S DOT Shippin	g Name:	NON HAZ/	NON DOT					
Class:	NA	UN/NA:	NA	PG:	NA	RQ:	NA		-
Fla	ash Point		рН	Rea	tive Suifides	Reactiv	e Cyanides	Sal	ids
i	NA	6.	5-7.5	NA.	<u>me/i</u>	NA	mg/l	NA	%
Oil	& Greese	1	ос		Zinc	C	pper	Níc	kei
NA	mg/l	NA NA	<u>me/l</u>	NA NA	<u>mg/l</u>	NA NA	mg/l	NA	<u>mg/l</u>
SECTION	4: Physical and	d Chemical Dat	a		·				
	co	MPONENTS T	ABLE			CONCEN	TRATOIN		UNITS
	The surete con	alara afaha fal		ila		0			9/

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
ISTAMUL 92	82	%
WATER	5	%
CALAMIDE C	, 10	%
ANTIFOAM AGENT	1	%
TEA	2	- &
		-
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	

SECTION S. SUICE RE	
If the handling of this v	waste requires the use of special protective equipment, please explain.
NA	
SECTION S. Amachad	Supporting Documents
	es, data and/or analysis attached to this form as part of the waste
approval package.	2C2M
SECTION 7: Incompati	<u>bilities</u>
Please list ALL Incompa	itibilities (if any):
None Known	
——————————————————————————————————————	
SECTION 8: Generator	's Knowledge Documentation
	the hazardous waste characteristics, listed below, WAS NOT PERFORMED
oased upon the followi	ng generator knowledge:
TCLP Metals:	ALA
TCLP Wetals: TCLP Volatiles:	NA NA
	NA
TCLP Semi-Volatiles:	NA
Reactivity:	NA
Corrosivity:	NA
ignitability:	NA .
SECTION 9: Generator	
The information contain	•
	above and attached description is complete and accurate to the best of
my knowledge and abili	try to determine that no deliberate or willful ornissions of compostion
properties exist and the	at all known or suspected hazards have been disclosed. I certify that the
materials tested are rep	presentative of all materials described by this document.
,	
Authorized Signature:	Date: U - 9-02
Printed Name/Title:	200 MUNICHAN DIFFLOENT
times aming the	THE PROPERTY OF
CES USE ONLY (DO NOT	WRITE IN THIS SPACE)
	0 1 140 2
Compliance Officer:	Lowney 400
Date: 6-17-08	✓ Approved ☐ Rejected
Approval Number:	- 2231
Ab. 4	VOV



11445 East Via Linda Suite 2150, Scottsdale, AZ 85259 480,361.4931



Version: 001 Page: 1 of 6

Date: 10.01.07

e-CORE® CARBO - LIQ PLUS-10

1. IDENTIFICATION OF THE BUESTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name: e-COREO CARBO -- LIQ Plus-10 COMPANY E-CORE 1145 East Via Linda

Scottsdale, Arizona 85259 United States

Emergency telephone number Chempac 001.703.527.3887 Telephone: 001/480.361,4931 Fax: 001/480.361,4968

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL FAMILY: Carbohydrate solution Chemical characterization

CAS-No.

Chemical Nama TRADE SECRET

Walght %

Classification

Further ingredients / Impurities

CAS-No.

Chemical Name

Weight %

Classification

Synonyms

a. HAZARDS IDENTIFICATION

Hazarda to people and the environment

None.

Additional advice

870/05 [18+amu] 923 870/0 18+amu] 923 870/0 100/0



Version: 001

Date: 10.01.07 of 6

O-CORES CARBO - LIQ Plus-10

Page: 2

4. FIRST AID MEASURES General advice

inhalation

Only under extreme spray can this be harmful, Remove person out of contamnated area to fresh air. If discomfon occurs or persists, seek medical attention

Skin contact

Wash with water. Remove contaminated clothing and footwear. Wash clothing before reuse and discard footwear, which cannot be decontaminated. Seek medical attention if irritation occurs

Eye contact

Flush eyes theroughly with plency of water for at least 15 minutes, holding cyclids apart to ensure flushing of the entire eye surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. If eye irritation persists, consult a specialist.

Ingestion

Rinse mouth out with water. Consult a physician.

Notes to physician

Treat symptometically.

6. FIRE-FIGHTING MEASURES

Suitable extinguishing media Use water spray, fog, foam, CO2 or dry chemical

Extinguishing media which must not be used for eafety reasons

Oxidizing materials and strong mineral acids.

Special dangers caused by the substance or preparation itself, results of fire/burning, or ensuing gases Non-determined

Special protective equipment for firefighters

In the event of fire, wear approved self- contained breathing apparatus with full-face mask and full protective equipment,

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use approved respirator.

Environmental precautions

N/D

Methods for cleaning up

Soak up residue with noncombustible absorbent metorial. Shovel up spille and sweep up cleanly, Avoid contact with incompatible materials. Place spilled material in a scal able steel container for proper disposal. After all visible traces have been removed flush area with clean water.

Additional advice

Never return spills in original containers for re-use.



Version; 001

Date: 10.01.07 of 6

e-CORE® CARBO - LIQ Plus-10-

Page: 3

7. HANDLING AND STORAGE

Handling

Safe handling advice

Avoid curting or welding of empty sometimes to prevent the possibility of causing fire, explosion or toxic fumes

Advice on protection against fire and explosion

Keep away from open flames and high temperatures.

Storage

Requirements for storage rooms and containers

Store in a cool, dry, non-combustible building.
Advice on common storage

No materials to be specially mentioned. Observe regulations for keeping separated.

Special storage conditions

Do not store in unlabeled containers

EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures Control parameters

Chemical Name

Weight %

100%

BEI

QEL

Trade sceret

Personal protective equipment Respiratory protection

Use adequate local exhaust ventilation where dust, mists or spray may be generated. If ventilation is not available or is inadequate use an approved respirator.

Safety goggles or chemical goggles, and a splash resistant face shield should be worn to prevent eye/face contact,

Hand protection

Imperious gloves should be worn. Gloves may be decontaminated by wishing with mild soap and water. Natural and Butyl rubber or neoprene has been suggested.

Skin and body protection

Coveralis closed to the neck are preferred. A chemical aprop should be worn when splashing of product is possible. Wear rubber boots or chemical registent shoes. Safety showers and eyewash facilities should be

Industrial hygiene

Remove and wash contaminated clothing before re- use. Handle in accordance with good industrial hygiene and safety practice.



Date: 10.01,07

e-CORE® CARBO - LIQ Plus-10

Version: 001 Page; 4 of 6

PHYSICAL AND CHEMICAL PROPERTIES

Form

Odor elight PH @ 10% 6.5 - 7.5

Bailing point/range > N/A
Decomposition temperature --

Oxidizing properties --Not determined

Flash point Explosion limits

None

Vapour preseure N/A

Specific Gravity N/D Water solubility N/D

Pat colubility

Solubility in other solvents N/D

Partition coefficient (n-octanol/water) --

Viscosity 5US @ 100 deg.F: n/a

Other data

Color Hazy Liquid

Melting point/range - N/A Auto Ignition tamperature -Flammability (solid, gas) --

Vapour density (Air=1,0) > N/D

Bulk density -

1D. STABILITY AND REACTIVITY

Conditions to avoid

Materials to avoid

Oxidizing materials and strong mineral soids

Hazardous decomposition products None known.

Further information

TOXICOLOGICAL INFORMATION 11.

Acute toxicity

Ingestion

LD50 oral Skin contact

LD50 dermal

Inhalation

LC60 inhal,

Further information:

Primary irritation

inhalation

Skin contact

Eye contact

Ingention

Further Information:

Chronic toxicity

Sensitization

Carcinogenicity

Mutagenicity

Reproductive toxicity

Narcosis

Further Information

Large amounts may cause diarrhea

May cause skin irritation from repeated or prolonged contact

irritation to lungs

No actne effects expected.

May cause skin irritation from reposted or prolonged contact

May cause slight irritation

Large amounts may sause diarrhes.

no dava available no data avallable

no data available

no duta avaliable

no data available



Date: 10.01.07

e-CORE® CARBO - LIQ Plus-10

Version: 001 Page: 5 of 6

12, **ECOLOGICAL INFORMATION**

Toxicity to fish

BODS **Aquatic toxicity** no data

COD

Toxicity to algae Toxicity to bacteria

Bioaccumulation no data available Mobility no data available Pereistence and degradability

Water pollution place (Germany) WGK: Further Information

13. DISPOSAL CONSIDERATIONS

EWC waste disposal No: -

Waste from residues / unused products

Where possible recycling is professed to disposal or incineration. If recycling is not practicable, disposa of in Compliance with the Environmental Protection (Dury of Care) Regulations 1991. Can be landfilled or incinerated, when in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

Number and letter: --

Contaminated packaging

Fully drained containers which are drop- and scrape- free can be treated as industrial waste, and can possibly be recycled,

14. TRANSPORT INFORMATION

UN/ID No.: Labeis:

N/A N/A

Packaging group: N/A

Road/Rail-transport (ADR/RID)

ADRIRID Class:

Description of the goods: Non-hazardous polyfunctional fluid

Further information --

Sea transport IMO/IMDG

IMDG class: --IMDG page: -

MFAG: -

Sub risks: EmS: --

Sub risks:

Proper shipping name: N/A

Further information -

Marine pollutant: not determined

Danger code: -

Air transport ICAO-TI/IATA-DGR

IATA Class:

Packing Instruction (passanger aircraft):

Packing instruction (cargo aircraft): Proper shipping name:

Other Information: -

N/A



Version: 001

Date: 10.01.07

e-CORE® CARBO - LIQ Plus-10

Page: 6

REGULATORY INFORMATION 15,

Labeling according to EC Directives

CAS-No. Not avaliable EC-No.

INDEX No.

Chemical Name

Symbol(s):

R-phrase(s)

None None

S-phrase(s)
Exceptional labeling
Additional advice

None

According to Regulation 5 of the CHIPS Regs 1994, the product is not alassified at sangerous for supply.

Other national regulations

Water pollution class (Germany) WGK: VbF class (German regulation) NU

Storage class VCI (Germany) 10/11 Starfallverordnung (Germany)

TA Luft: class (Germany)

SWISS toxic class:

16. OTHER INFORMATION

Contact person

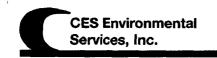
11445 East Via Linda

Suite 2150,

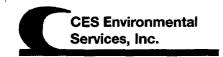
Scottsdale, AZ 85259

Approved \$668-100107

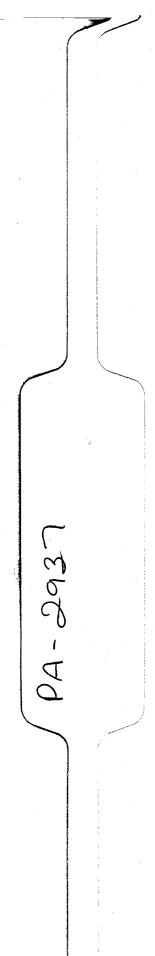
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and heliof at the date of its publication. The information given is designed only as guidance for safe handling use, processing storage, transportation, disposal and release. It is not to be considered a warranty or quality specification. The information relates only to the specific material designated and my not be valid for such meterial used in combination with any other materials or in any process, unless specified in the test.

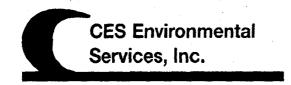


1.	Base Pricing (including freight):
	\$65/dm
2.	Contamination Limits (maximum limit before surcharges apply):
	N/A
	17/24
3.	Surcharge Pricing:
	None
	None
1	
4.	Special Testing Requirements:
 -	
	None-Be sure fits profile
1	
ĺ	
Ĺ	
.	Marsharen Ann I YY or IP - To - ()
5.	Treatment and Handling Protocol:
	Class 1 sludge Box
ĺ	
L	
6.	Treated Wastewater Discharge Subcategory:
ſ	
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
1	_ · · · _ · · · · · · · · · · · · · · ·



7.	Tests for Product Recovered/Recycled (if applicable):
	Na
8.	Management for Product Recovered/Recycled (if applicable);
	Na





4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 8/21/2008

Dear Ed Cox

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2937

Expiration Date 8/21/2010

Producer: Afton Chemical Corporation

Address:

Suget, IL 62201

Material / Product Information

Name of Material / Product hitec 348 perofrmance additive

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

out of date product

Color: yellow

Odor: sulfurous

pH: neutral

Physical State:

Incompatibilities: strong oxidizers
Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

JB

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mate	rial Producer Inforn	nation				
Company:	Afton Chemical C		<u> </u>			
Address:	501 Monsanto Ave	enue				
City, State, Zip:	Suget, Il 66201					
Contact:	Ed Cox		Title:			
Phone No:	(618) 583-1078		Fax No:	(618) 583	-1388	
24/hr Phone:	(618) 583-1078					
U.S. EPA I.D. No:	na					
State I.D.	na		SIC Code:	na	 	
SECTION 2: Billin	g Information – 🔀 S	Same as Above				
Company:						
Address:						
City, State, Zip:						
Contact:		Title	•			
Phone No:	**************************************	Fax I		·		
-						
SECTION 2. Conor	ral Description of the	e Material / Product	•			
		AN	conce Additi	. in	•	
Detailed Description		ing or Producing the				
oat at 0	ate Glagast					
Physical State:	Liquid	Sludge	Powder			
	Solid Solid	Filter Cake	Combination	n		
Color: Yellow	C	odor: <u>Sulfuro-</u>	1.			
9001.		7.401. <u>0 0 1</u> . 0 0				
pecific Gravity (wa	nter=1): .9 59	Density: lbs	s/gal			
oes this material co	antain any total nher	nolic compounds? 🔲	Ves TVo			
ocs tills illustration	omani and total bile.	Tome tompounds.	1 2 6 5 1 1 1 0			
oes this material co	ontain any para subs	stituted phenolic com	pounds? 🗌 Yes 🏻 [I No		
∡ayers:	Single-phase	Multi-pha	986			
ayers.	Single-phase	winn-pin	usc			
· · · · · · · · · · · · · · · · · · ·	[∑] n	□ T -6			O41 (1 - 1 - 1 - 1	
Container Type:	⊠ Drum	Tote	Truck	Ц	Other (explain)	
Container Size:	<u>55 gal</u>					
	W1-1		П <u>О</u>	1.7/	Vocale	
requency:	☐ Weekly	☐ Monthly	Quarterly		Yearly	
Number of Units (co	ntainers):	Other: _				
		Q sal -	 			
		(hodui	<u> </u>			
roper U.S. DOT Sh	ipping Name:	Non RCRA Noi	n DOT Regulated Ma	terial		
Class: na	UN/NA	A: na	PG: na		RQ: na	

Flash Point pH	N/A	N/A		S	Solids %
Oil&Grease TOC パダン mg/l はどろmg/l	Zinc mg/l	Copper O m		Nickel O mg	<u>r</u> /l
7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			<u>9, 7</u>		
SECTION 4: Physical and Chemical D	<u>ata</u>				
COMPONENT		_		ntration	Units
The material / product consists	of the following materia	ls	Ranges ar		
Lio Marin			१वे- १५.०	1	4"
meth Ac of late copoly.	mer AST		5-8.9		a(1
likyl polysulfides	Nc.		ા~ પ - ધે		4("
-ong chain Alley! Amino	Sec		1-4.		er,
tiked canopaste			1-4	•	ac,
ong-chair Alkyl Amine			l -'4.	٩	े विच
SECTION 6: Attached Supporting Doc List all documents, notes, data, and/or a HiTEC 348 MSDS		orm as part (of the materia	al / produc	ct profile.
SECTION 7: Incompatibilities					
Please list all incompatibilities (if any): Strong Oxidizers					
SECTION 8: Material Producer's Certi	<u>ification</u>				
The information contained herein is based attached description is complete and accommissions of composition properties exist ested are representative of all materials de	urate to the best of my k and that all known or su	nowledge an	d ability to d	letermine	that no deliberate or wil
Authorized Signature:			Date:		
Printed Name/Title:	W. C.				

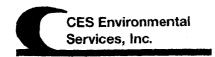
Rejected

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

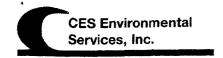
Technical Manager: Robert My A

Date: <u>\$-71-08</u> Approved

Approval Number: 2937



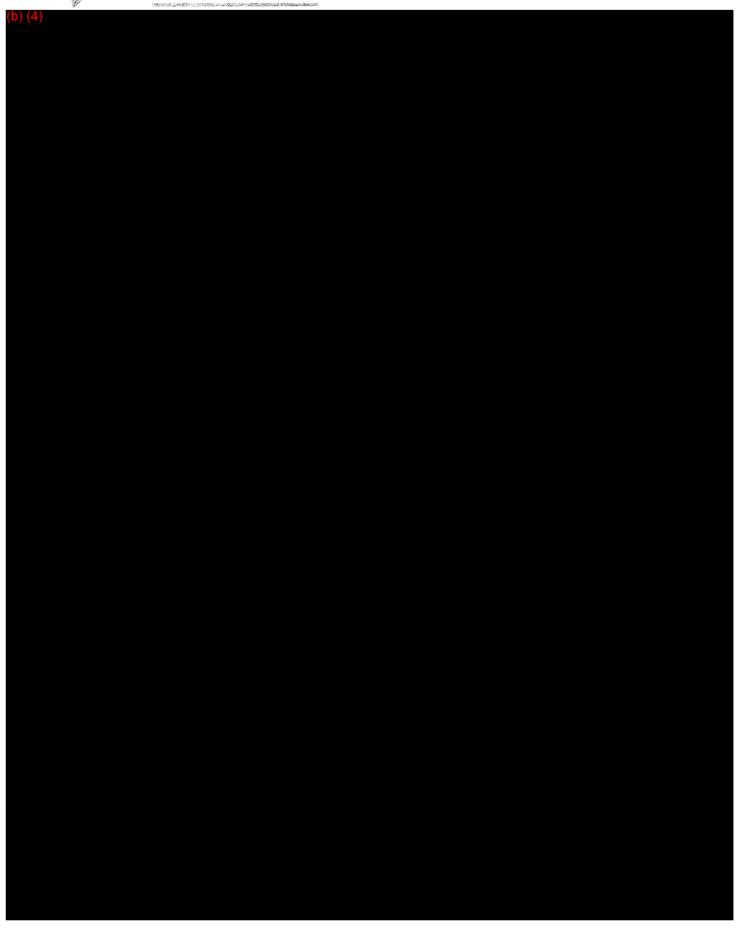
1.	Base Pricing (including freight):
	Base Pricing (including treight): If brought in By CES on PCI back haud: no chaze! no payment. If brought in by ontside transporter at customer expanse: pay \$10.15/get
	no payment.
	If brought in by ontside transporter as consisted expense.
	pay \$0.15/get
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
4.	Special Testing Requirements:
	Rocard mantity in each down. Number each drum
	Rocard quantity in each down. Number each down and record amount and product type on inventory
	J.S.
5.	Treatment and Handling Protocol:
. [Once invendory has been given to product sales.
	Once invendory has been given to product seles, the material will be resold to is, according to
	directed by product sales person.
5.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
Ł	



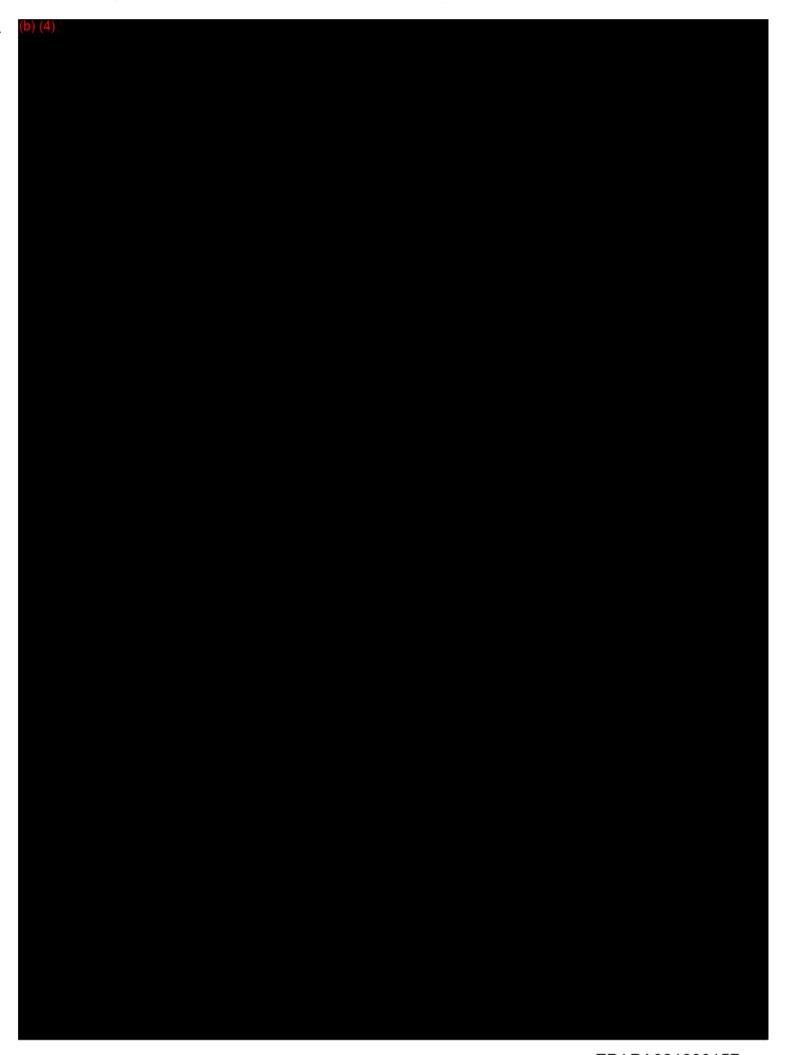
7.	Tests for Product Recovered/Recycled (if applicable):
	See Special festing requirements
8.	Management for Product Recovered/Recycled (if applicable);
	- 500 treatment & nandling protocol



Material Safety Data Sheet



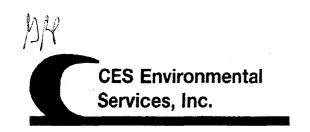








*** END OF MSDS ***



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 8/21/2008

Ed Cox Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the Modified profile, then rejection or additional charges may apply.

CES Profile # 2937

Expiration Date 8/21/2010

Producer: Afton Chemical Corporation

Address:

Suget, IL 62201

Material / Product Information

Name of Material / Product hitec 848 perofemance additive Additive - Non RERA /Non DOT **Container Type:**

Detailed Description of Process Generating or Producing the Material / Product:

out of date product _

Color: yellow

Odor: sulfarous

pH: neutral

Physical State:

Incompatibilities: strong oxidizers Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

JB

Phone: (713) 676-1460

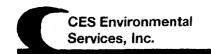
Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mate					
Company:	Afton Chemical				
Address:	501 Monsanto A	venue			
City, State, Zip:	Suget, II 66201				
Contact:	Ed Cox		Title:	((10) #00	1222
Phone No:	(618) 583-1078		Fax No:	(618) 583	3-1388
24/hr Phone:	(618) 583-1078				
U.S. EPA I.D. No:	na		GIC C. I.		
State I.D.	na		SIC Code:	na	
SECTION 2: Billin	ıg Information – 🛛	Same as Above			
Company:					
Address:					
City, State, Zip:					
Contact:		Title:			
Phone No:	······································	Fax No	:		
•	····				
SECTION 3: Gene	ral Description of th	ne Material / Product			
					•
Name of Material /	Product: Hadi	Tives - Non RCRI	4/Non Oot		
Detailed Description	n of Process Genera	ting or Producing the M	aterial / Product:		
0 36 420	terperd an	108- Spec 0	roduct		
		, Open	, o gar ca		
Physical State:	Liquid	☐ Sludge	Powder		and the second s
	☐ Solid	☐ Filter Cake	Combinatio	n	
,			·		
Color: _ \under		Odor: Variso			
- g					
Specific Gravity (wa	ater=1): Virils	Density Vallbs/g	al		
		7 700 1 30			
Does this material c	ontain any total nhe	enolic compounds? 🔲 Y	es T₹No		
bocs tins material c	ontain any total pin	none compounds. []			
Does this material c	ontain any para sub	stituted phenolic compo	unds? Yes	No	
		,			
Layers:	☑ Single-phase	Multi-phase	9		
		_			
Container Type:	⊠ Drum	Tote	Truck		Other (explain)
Container Size:	<u>55 gal</u>				
Frequency:	Weekly .	☐ Monthly	☐ Quarterly	더	Yearly
rrequency.			□ Quarterly	ت	1 carry
Number of Units (co	ontainers). v w	Other:			
		Rodut	_		•
Proper U.S. DOT St	nipping Name:	Non RCRA Non I	OOT Regulated Ma	terial	
-	••				DO.
Class: na	UN/N	A: na	PG: na		RQ: na

÷				· •		
Flash Point	рн 3-11	N/A	N/A		Solids	9/0
Oil&Grease	TOC	Zinc	Copper	Niel	cel	
7(500 mg/l	46500mg/1	mg/l	<u>Ö</u> _m	g/l C	mg/l	
SECTION 4: Physic	al and Chemical D	<u>ata</u>				
	COMPONENT			Concentra		Units
		s of the following materia	ls	Ranges are ac	eptable	or %
Performan	ice / Frel A	ddisve	\sim	100		90
	·			_		al?
A . 2 1		(cee Ms)				4("
F .		- (Celi		R V. W	1	cr.
1		· - () 				ac,
A	7				+	ব্য
La				<u> </u>		70
SECTION 5: Safety	Sharud drive Kelated Data	,				
		t requires the of spec	ial protectiv	e equipment, plea	se explain	
SECTION 6: Attach	ed Supporting Doc	<u>uments</u>				•
List all documents, no	otes, data, and/or a	nalysis attached to this fo	rm as part o	of the material / p	roduct pro	ofile.
SECTION 7: Incomp		<i>0,77</i>	C			
Please list all incompa Strong Oxidizers	atibilities (if any):					
SECTION 8: Materia	al Producer's Cert	fication				
attached description is omissions of compositi	complete and acci	on generator knowled urate to the best of my k and that all known or susscribed by this document.	nowledge an	d ability to deterr	nine that r	no deliberate or willful
Authorized Signature	: No si	jnature require	d-produ	ct Date:		
Printed Name/Title:		V	• /************************************			
CES USE ONLY (DO NOT	WRITE IN THIS SPA	CE)				
Technical Manager:	John thy	1				
Date: <u>5-21-08</u>	App	roved Rejected				
Approval Number:	2937					



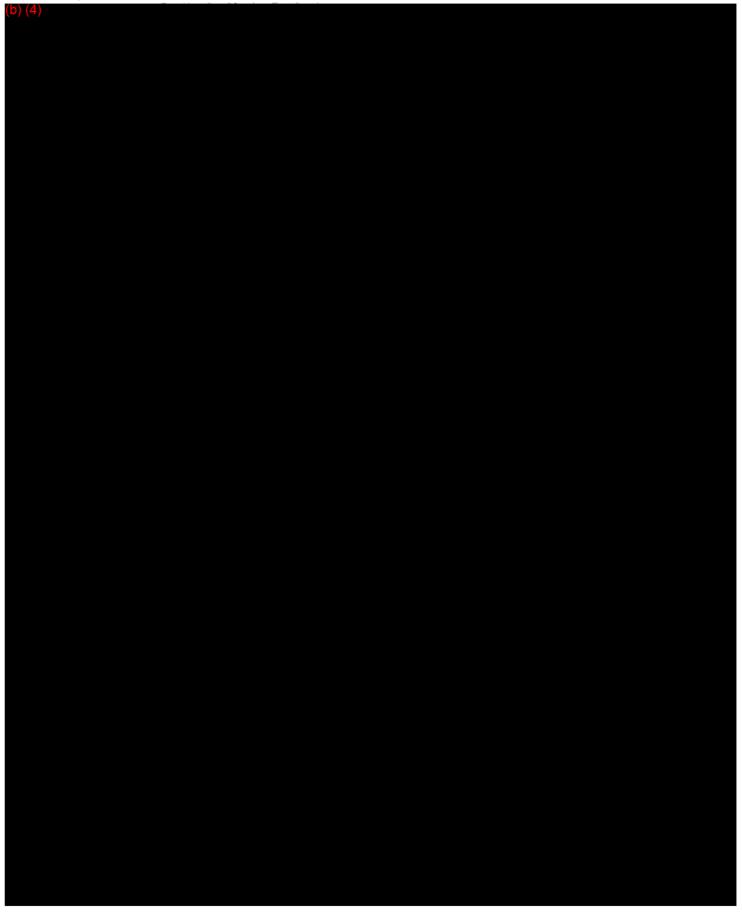
1.	Base Pricing (including freight):
	If brought in By CES on PCI backhaul: no charge
	If brought in by ontside transporter at customer expense!
	one payment. If brought in by ontside transporter at customer expanse: pay \$0.15/get Pay \$\mathbb{B}.019/\text{pound}
2.	Contamination Limits (maximum limit before surcharges apply):
	It drang one damaged and one in an overpach then it
	acceptions) determines too many man basing are needed
	operations determines too many man begans are needed to recover the material then will be and payment
	to receive
İ	
3.	Surcharge Pricing:
į	
4.	Special Testing Requirements:
	Rocard quantity in each drum. Number each drum
	and record amount and product type on invendory US. Lande Cabolina the gotton from the gotton the boll meets is
	150 100 the Dato Com the gotten of the golding the took meeter to
	The work of the policy of hearing of hearing of hearing
5.	Treatment and Handling Protocol:
	Ance invendors has been given to involve tolor
	Once invendory has been given to product seles,
	the maderial will be resold so is, according es
	directed by product scloo person!
_ [
). 「	Treated Wastewater Discharge Subcategory:
	Subcategory A Subcategory B Subcategory C



7.	Tests for Product Recovered/Recycled (if applicable):
	See Special festing requirements
•	Market Development (Complete No. 1997)
8.	Management for Product Recovered/Recycled (if applicable);
	- See treatment & handling protocol

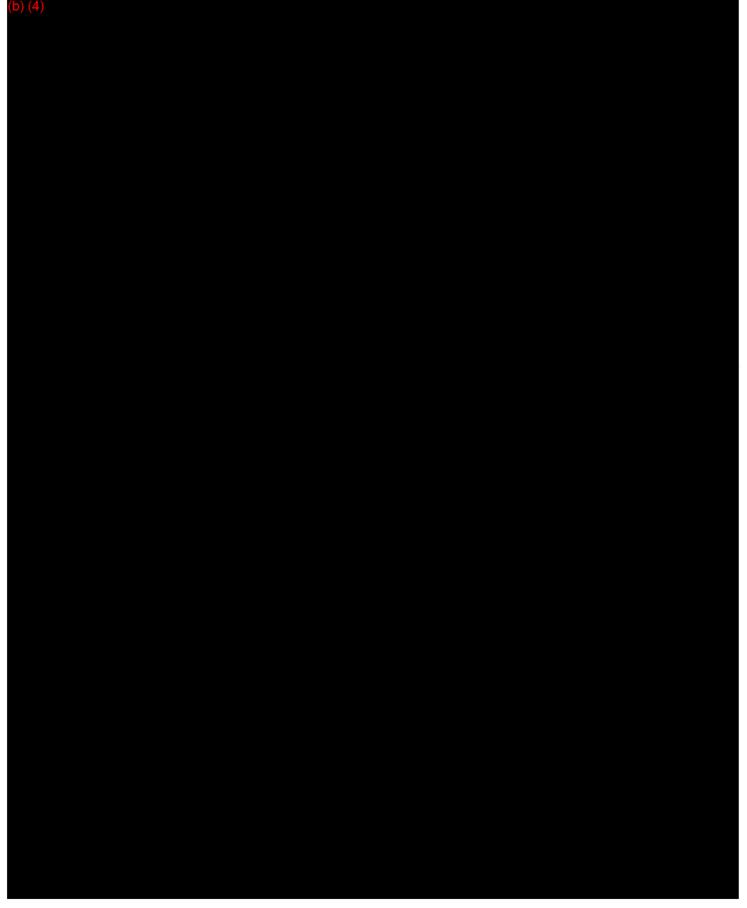


One eximple Material Safety Data Sheet

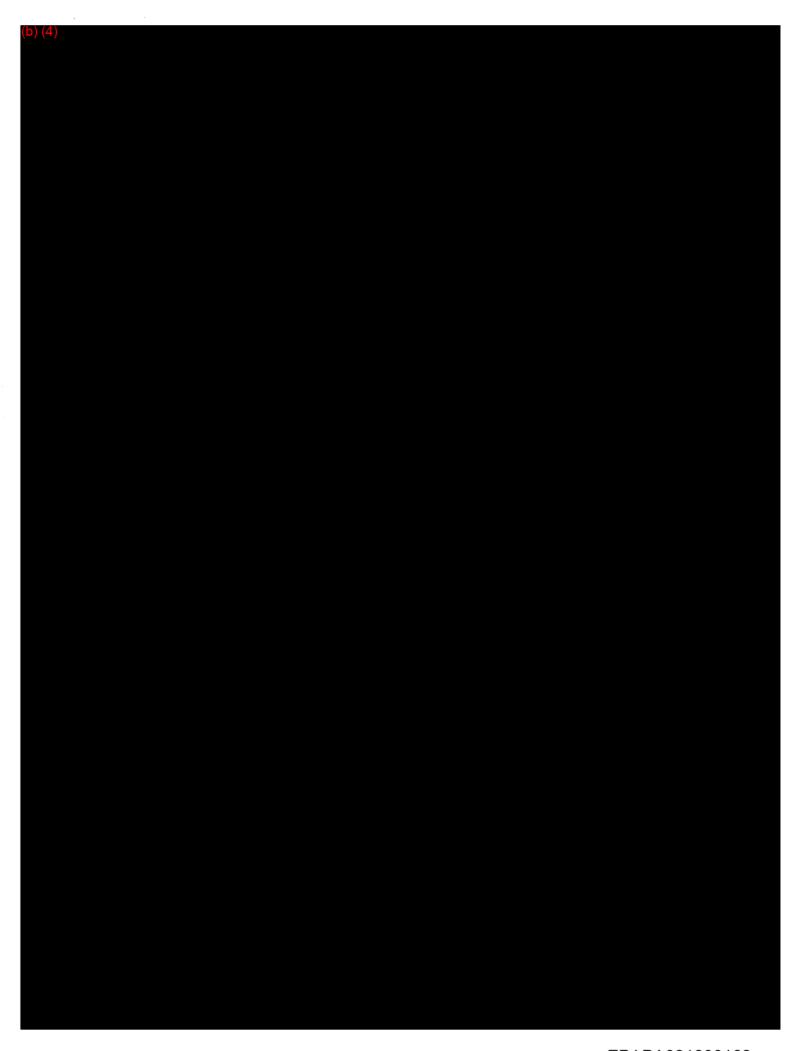


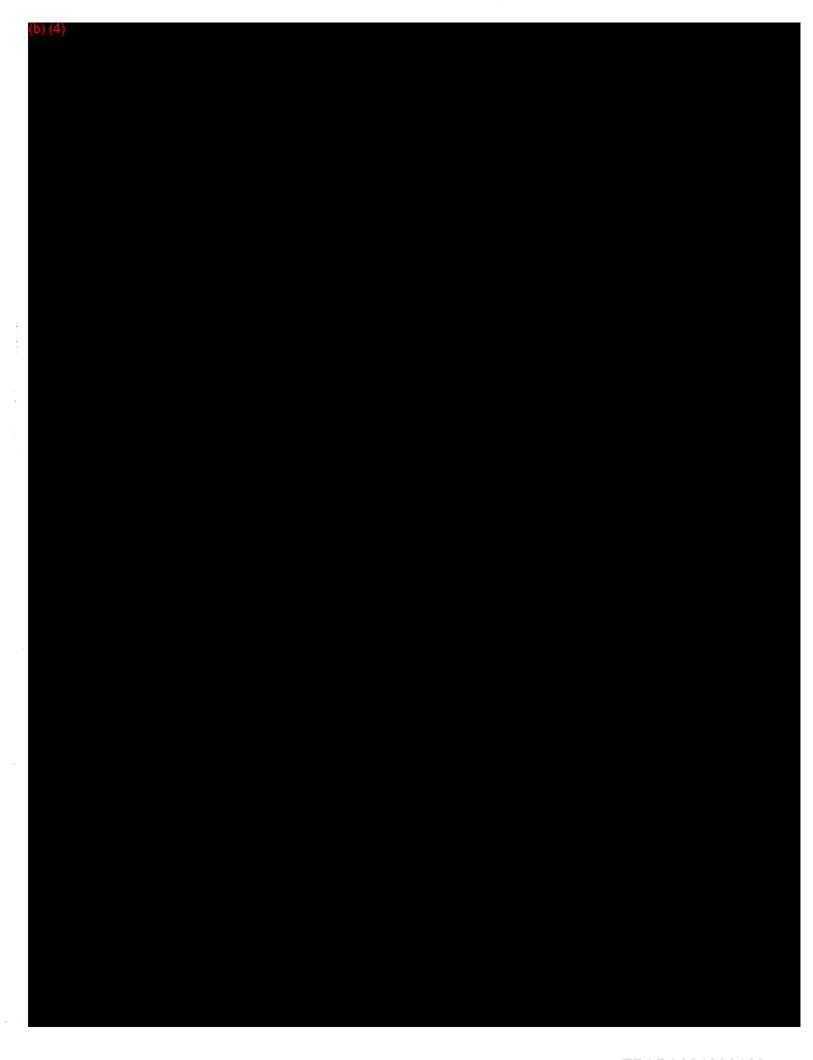


One example Material Safety Data Sheet



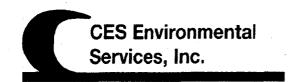








*** END OF MSDS ***



Material / Product Approval Letter

Date 8/21/2008

Dear Ed Cox

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2941

Expiration Date 8/21/2010

Producer: Afton Chemical Corporation

Address:

Suget, IL 62201

Material / Product Information

Name of Material / Product hitec 387 performance additive

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

out of date product

Color: amber

Odor: slight pungent

pH: neutral

Physical State:

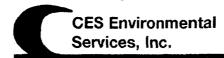
Incompatibilities: strong oxidizers **Safety Related Data/Special Handling:**

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676 JB

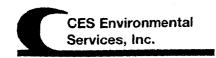
http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

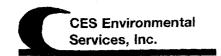
SECTION 1: Mate	erial Producer Inforn	nation					
Company:	Afton Chemical C						
Address:	501 Monsanto Ave	enue					
City, State, Zip:	Suget, Il 66201						
Contact:	Ed Cox				Title:		
Phone No:	(618) 583-1078				Fax No:	(618) 583	-1388
24/hr Phone:	(618) 583-1078						
U.S. EPA I.D. No:	na						
State I.D.	na				SIC Code:	na	
SECTION 2: Billin	ng Information – 🔀 S	Same a	s Above				
Company:	ing information V	, unit t	13 210 6 7 0				
Address:							
City, State, Zip:							
Contact:			Title				
Phone No:			Fax N				
r none ivo.			rax I	10. –	, , , , , , , , , , , , , , , , , , , ,		
SECTION 2. Cons	wal Description of the	Mate	wiel / Dwednet				
	eral Description of the						
Name of Material / Detailed Descriptio	Product: Nitec	387 ing or	Performa Producing the	ત્ર લ્ Materia	مگاناز برد al / Product:	•	
	Date Product		3				
Physical State:	Liquid	П	Sludge		Powder		
,	□ Solid		Filter Cake		Combinatio		
	∐ 30Hd	ш	rmer Cake	لا	Combinatio	11	
Color: A wber		dor: .	Slight Pu	ה שפ הו	4		
Specific Gravity (w	ater=1): <u>- 96</u>	De	nsity: 8 lbs	/gal			
Does this material c	contain any total phe	ıolic c	ompounds?	Yes	₽No		
Does this material c	contain any para subs	titute	d phenolic com	pounds'	? Yes	No	
Layers:	Single-phase		Multi-pha	ise			
Container Type:	□ Drum		Tote		Truck	П	Other (explain)
			- 010		LIUUR	<u> </u>	omer (explain)
Container Size:	<u>55 gal</u>				*****************************		
Frequency:	☐ Weekly		Monthly	П	Quarterly		Yearly
	•	Ш	-	ш	Quartity		i cai iy
Number of Units (co	ontainers): 17		Other:				
			Panda H	Ε.			
Proper U.S. DOT S	hipping Name:		Combustible Lie	auids. N	.O.S.,(Sulfuri	zed olefins)	Petroleum distillans
Class: 3	UN/NA	_	NA1993		PG: III		
J. 1433.	UIN/IN	3.	14/31223		1.Q. III		RQ: 1000 lbs

Flash Point	pH	N/A	N/A		Solids	
>140	Neutral	- 1/12				%
Oil&Grease	TOC LUSSing/l	Zinc	Copper Omg/	Nickel		
<u> </u>			mg/		mg/l	
SECTION 4: Physic	al and Chemical D	ata				
	COMPONEN			Concentratio		Units
		s of the following materia		Ranges are accep	table	or %
HITEC 387	Performance	Additive (See)	W202	(04		06
				-		
SECTION 5: Safety	Related Data					
If the handling of this Standard	s material / produc	t requires the use of spe	cial protective	equipment, please	explain.	
SECTION 6: Attach	ad Sunnauting Das	uumanta				
						P0 3
HiTEC 387 MSDS	otes, data, and/or a	malysis attached to this f	orm as part of	the material / pro	duct pro	tile.
SECTION 7: Incomp	<u>patibilities</u>					
Please list all incompa	atibilities (if any):					
SECTION 8: Materi	al Producer's Cert	ification				
			1 1/ 57	1 . 11 . 11	,	
attached description is omissions of composit	s complete and accion properties exist	I on generator knowled urate to the best of my life and that all known or subscribed by this document.	knowledge and ispected hazards	ability to determin	ne that no	deliberate or wil
Authorized Signature	**			Date:		
Printed Name/Title:						
	d and which was a second of the second of th	of the state of th	Constitution of the Consti			
CES USE ONLY (DO NOT	WRITE IN THIS SPA	ACE)				
Technical Manager:						
Date: 8-21-08		proved Rejected				

Approval Number: 2941



1.	Base Pricing (including freight):
	If brought in By CES on PCI backhaul: no chage
	If brought in By CES on PCI backhaul: no chaze! no payment. If brought in by ontside transporter at customer expanse! pay \$0.15/get
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
4.	Special Testing Requirements:
	Rocard quantity in each down. Number each drum and record amount and product type on inventory Ust.
5.	Treatment and Handling Protocol:
	Once invendory has been given to product sales, the material will be resold to is, according to directed by product sales person.
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7.	Tests for Product Recovered/Recycled (if applicable):						
	Sel Special testing vegnirements.						
8.	Management for Product Recovered/Recycled (if applicable):						
	See treatment & nandling protocol						



HITEC 387 Performance Additive

Material Safety Data Sheet

MSDS No.

H387

HITEC is a trademark owned by Afton Chemical Corporation or one of its subsidiaries.

Product and Company Identification

Chemical Family

Product Use

Petrochemical industry: Gear oil additive

CAS No.

Validation Date

3 June 2004

In Case of Emergency

1-800-403-0044 (US & Canada) 1-804-648-7727 (International)

32-2-507-20-64 (Europe) Manufacturer / Supplier

Afton Chemical Corporation 500 Spring St. Richmond, VA 23219 1-804-788-5800

Afton Chemical Limited Euro-Tech Centre

London Road, Bracknell, Berkshire

RG12 2UW, England 44 1344-304141

Composition and Information on Ingredients

Note: See section 8 for occupational exposure limits and section 11 for LC50/LD50 information

Substance/Preparation

: Preparation

Ingredient Name

CAS No

Cone. (% w/w)

EU Classification

WHMIS

Mineral Oil

Mixture.

30-60

Not controlled under DSD

Regulated?

(Europe).

3. Hazards Identification

Notice to Reader

Afton operates a world-wide system for hazard communication. Some hazards shown in Section 3 may apply to non-EU countries and may not result in classification and labeling in the EU. Please see Section 2 and 15 for country specific classification information, and Section 11 for additional details.

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Primary Hazards and Critical Effects

: WARNING!

COMBUSTIBLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE.

Physical/Chemical Hazards

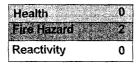
Combustible.

Environmental Hazards

Not classified as dangerous for the environment according to EC criteria.

Hazardous Material Information System

(U.S.A.)



First Aid Measures

Inhalation

; If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Ingestion

: If affected person is fully conscious, give one glass of water to drink. Never give anything by mouth to an unconscious person, Get medical attention if symptoms appear.

Skin Contact

: Wash with soap and water. Get medical attention if irritation occurs.

Eye Contact

: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention immediately,

5. Fire-Fighting Measures

Extinguishing Media

: In case of fire, use water spray (fog), foam, dry chemicals, or CO2.

Fire-Fighting Procedures

: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Fire/Explosion Hazards

: Combustible liquid and vapor. Vapor may cause fire.

Hazardous Decomposition Products

: These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...), sulfur oxides (SO2, SO3...).

Flash point

: Closed cup: 85°C (185°F). (Pensky-Martens. Minimum)

6. Accidental Release Measures

Personal Precautions

Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5). Do not touch or walk through spilled material.

Environmental Precautions and Clean-up Methods

If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spilled dise spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways.

Note: See section 1 for emergency contact information and section 13 for waste disposal.

Handling and Storage

Handling

Keep away from heat, sparks and flame. Avoid prolonged or repeated contact with skin. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. To avoid fire, minimize ignition sources.

Storage

Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Keep container in a well-ventilated place.

8. Exposure Controls and Personal Protection

Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Personal Protective Equipment

Respiratory System

: Use appropriate respiratory protection if there is the potential to exceed the exposure limit(s).

Skin and Body

: Disposable outer garments when there is the potential for contact with the material.

Hands

: Use chemical resistant, impervious gloves.

Eyes

Safety glasses with side shields. Goggles with a face shield may be necessary depending on quantity of material and conditions of use.

Occupational Exposure Limits

Ingredient Name

OEL United States

OEL Canada

OEL Europe

Mineral Oil

ACGIH (United States). TWA: 5 mg/m³ STEL: 10 mg/m³ OSHA (United States).

TWA: 5 mg/m³

TWA: 5 mg/m³ STEL: 10 mg/m³ EH40 (UK) (Europe, 2002). TWA: 5 mg/m³ 8 hour(s).

9. Physical and Chemical Properties

Physical State and Appearance

: Liquid. (Clear.)

Color Odor : Amber. (Light.) : Pungent. (Slight.)

Specific Gravity

: 0.964 at 15.6/15.6°C (target)

Solubility Viscosity ; Insoluble in cold water.

.

: 7.17cSt at 100°C (target).

Flash Point

: Closed cup: 85°C (185°F). (Pensky-Martens. Minimum)

HiTEC 387 Performance Additive

In Case of Emergency 1-800-403-0044 (US/Canada) 1-804-648-7727 (Int'l) 32-2-507-20-64 (Eu)

Page: 3/5

10. Stability and Reactivity

Stability

The product is stable.

Materials to avoid

Strong oxidizing and reducing agents.

Conditions to avoid

High temperatures, sparks, and open flames.

Toxicological Information

Routes of Entry

None known.

Target Organs

None known.

Acute Effects

Inhalation

Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

Ingestion

Not determined.

Skin Contact

Non-irritating to the skin.

Eye Contact

Non-irritating to the eyes.

Chronic Effects

Adverse Effects

Not determined.

Carcinogenic Effects

Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Toxicity Data

Ingredient Name

<u>Test</u>

Result

Route

Species

Not determined.

Other Information

: Not available.

12. Ecological Information

Not classified as dangerous for the environment according to EC criteria. Based on calculation.

Environmental Fate

This product contains components which may be persistent in the environment.

Germany water class

Not determined.

13. Disposal Consideration

Waste Handling and Disposal

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
DOT Classification	NA1993	Combustible liquids, n.o.s. (Sulfurized olefins, petroleum distillates).	Combustible Liquid.	III		-
TDG Classification	Not regulated.	-	-			-
ADR/RID Class	Not regulated.	-	-			-
IMDG Class	Not regulated.	-	-			-
IATA-DGR Class	Not regulated.	-	-			-

Notice to Reader

The above transport information is provided to assist in the proper classification of this product and may not be suitable for all shipping conditions.

15. Regulatory Information

EU Regulations

Risk Phrases

: This product is not classified according to the EU regulations.

Safety Phrases

: Not applicable.

US Regulations

: No SARA 313 chemicals are present above the reporting threshold.

: SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Fire Hazard

State

: California prop. 65: No products were found.

Canadian Regulations

WHMIS (Classification)

: Not determined.

International Inventory Status

United States

: All components on TSCA Inventory

Canada

: All components on DSL

Europe

: All components on EINECS

Japan Australia : All components on MITI or MOL

Korea

: All components on NICNAS

a koa ca

: All components on ECL

China

: All components on IECSC

Philippines

: All components on PICCS

Other Information

PREPARATION INFORMATION

Validated by _HS&E Department (Tel: +1 804 788 5800) on

6/3/2004.

Version

: 1

Date of Printing

: 6/3/2004.

Indicates information that has changed from previously issued version.

Notice to Reader

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. Afton makes no representation as to completeness or accuracy. In no event will Afton be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.

ADDRESS CONTACT INFORMATION

In the United States and Canada: Afton Chemical Corporation 500 Spring Street Richmond, Virginia

USA 23219-2183

Telephone number: 804-788-5800

In Singapore:

Afton Chemical Asia Pacific Company

111 Somerset Road #13 - 03

Singapore 238164

Telephone number: 65-6732-0822

In Australia:

Afton Chemical Asia Pacific Company

Level 9, 20 Berry Street

North Sydney, NSW 2060

Australia

Telephone number: 02-9923-1588 Business Hours: 9:00am - 5:00pm In Europe: Afton Chemical Limited Euro-Tech Centre

London Road, Bracknell, Berkshire RG12 2UW, England

44-1344-304141

In Japan:

Afton Chemical Japan Corporation Sumitoma Fudousan Sanbancho Bldg. 5F 6-26 Sanbancho, Chiyoda-ku

Tokyo 102-0075 Japan

Emergency phone: 81-3-5210-4890

*** END OF MSDS ***



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

AL

Material / Product Approval Letter

Date 8/21/2008

Dear Ed Cox

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile #

2941

Expiration Date 8/21/2010

Producer: Afton Chemical Corporation

Address:

Suget, IL 62201

Material / Product Information

Name of Material / Produc.

Add itives-Toxic

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

out of date product

Color: amber-

Odor: slight pungent

pH: neutral

whitely.

Physical State:

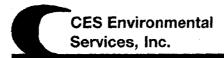
Incompatibilities: strong oxidizers Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

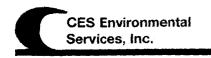


http://www.cesenvironmental.com

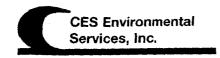
TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mate	rial Producer Inforn	<u>nation</u>				
Company:	Afton Chemical C	orportation				
Address:	501 Monsanto Ave	enue				
City, State, Zip:	Suget, Il 66201					
Contact:	Ed Cox		Title:			
Phone No:	(618) 583-1078		Fax No:	(618) 58	3-1388	
24/hr Phone:	(618) 583-1078					
U.S. EPA I.D. No:	na					
State I.D.	na		SIC Code:	na		
SECTION 2: Billin	g Information – 🛛 S	Same as Above				
Company:						
Address:						
City, State, Zip:						
Contact:		Title	:			
Phone No:		Fax 1	No:			
SECTION 3: Gener	ral Description of the	e Material / Product				
· · ·	A 1.1.1	_	•			
Name of Material / l	Product: Addr	iven - Toxic	٠.			
Detailed Description	of Process Generati	ing or Producing the	Material / Product:			
neclout of D	AL- Praduct					
y / -	_	•				
Physical State:	Liquid	☐ Sludge	Powder			
	☐ Solid	Filter Cake	Combination	n		
01 1/60						
Color: VW1%	· ·	Odor: Varis	- \			
Specific Gravity (wa	ter=1) Jurilo	Density: Van Lob	s/gal			
Does this material co	ontain any total pher	nolic compounds?	Yes No			
	_			a		
Does this material co	intain any para subs	tituted phenolic com	pounds? [] Yes [No		
Layers:	Single-phase	☐ Multi-ph	ase			
Container Type:	□ Drum	☐ Tote	☐ Truck		Other (explain)	
Container Size:	<u>55 gal</u>				,	
	<u> </u>					
Frequency:	☐ Weekly	☐ Monthly	Quarterly		Yearly	
Number of Units (co	ntainers): VM ec	Other:	•			
	., 🗸	0	L			
n		trodai	λ		الأعداب منابا	
Proper U.S. DOT Sh			·	doni su	bstance. Higraid, n.). S.
Class: 9	UN/NA	4: UN 3082	PG:		RQ:	
				_		_

	F				•
Flash Point	23-11	N/A	N/A	∠ ^s	olids } %
Oil&Grease	TOC	Zinc O mg/l	Copper Omg/l	Nickel mg	/1
SECTION 4: Physic		1	1		
	COMPONEN			Concentration	Units
1		its of the following materia	16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ranges are acceptab	
	Fuel Ad	ditive		(04	36
					
					
SECTION 5: Safety	Related Data				
		ct requires the use of spec	cial protective eq	uipment, please exp	olain.
Standard					
SECTION 6: Attache	d Supporting Do	cuments			
		analysis attached to this for the construction of the construction		e material / produc	t profile.
SECTION 7: Incomp	atibilities				
Please list all incompa Strong Oxidizers					
	d Duada anda Ca				
SECTION 8: Materia					10 1 1
attached description is omissions of compositi	complete and acon properties exis	ed on generator knowled curate to the best of my kest and that all known or sustescribed by this document.	nowledge and al	oility to determine t	hat no deliberate or w
Authorized Signature		upriced. produ	net	Date:	
Printed Name/Title:					
I IMICA I WING/ E RICE.	And Special Control of the Special Control of	ب و دستی بست و بستی به به خاطف و در در ماهند به در باید به دانستان به به دانستان به به در بین به باید	CON 1970 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1	entre de la companya	
CES USE ONLY (DO NOT	WRITE IN THIS SE	PACE)			
Technical Manager: 🗜	allent	man			
Date: 8-21-08					
Approval Number	2941				



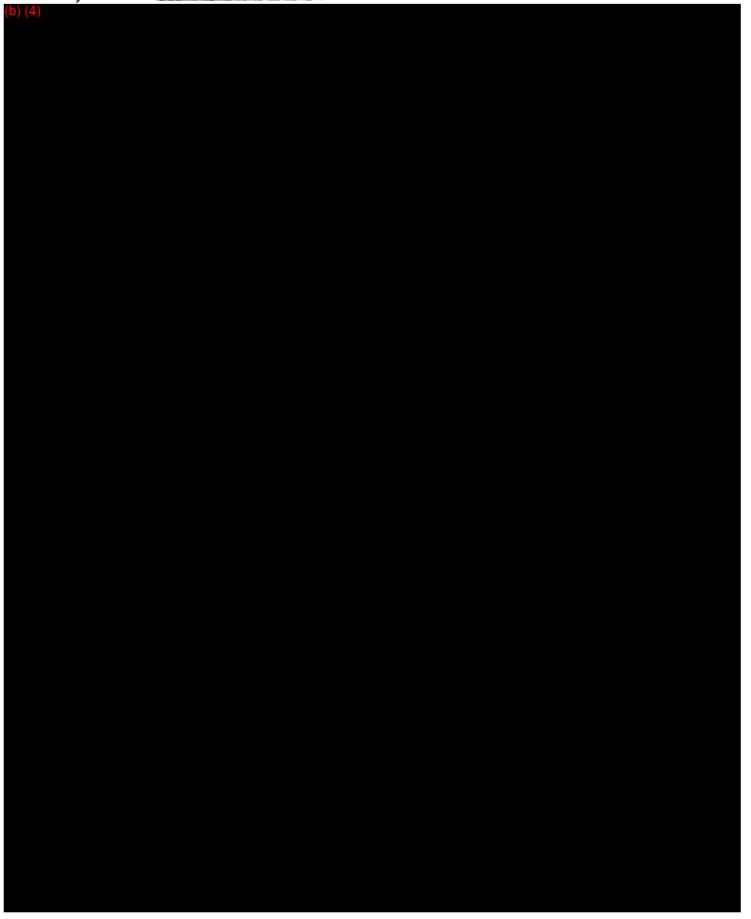
1.	Base Pricing (including freight):
	If brought in By CES on PCI backhaul: no change
	no payment.
	or payment. If brought in by ontside transporter at customer expense! pay \$0.15/get Pay \$, 819/ pound.
	1 pay #0.15/get Pay \$, 519/ pound.
2.	Contamination Limits (maximum limit before surcharges apply):
	If the drums are damaged god in an overfach and operations sleceides too many man hours are used to recome meterial then these will be no payment.
	then these will be no payment.
3.	Surcharge Pricing:
4.	Special Testing Requirements:
	Rocard quantity in each drum. Number each drum
	a 1 called some and produce type on inventory
	US all a Confident sold and the tax and the tax and the sold and the s
	and the salphing there with the desity of On internal
5	Treatment and Handling Protocol:
J. [
	Once invendory has been given to product seles, the material will be resold so is, according to
	directed by product sales person.
6.	Treated Wastewater Discharge Subcategory:
	Subcategory A Subcategory B Subcategory C

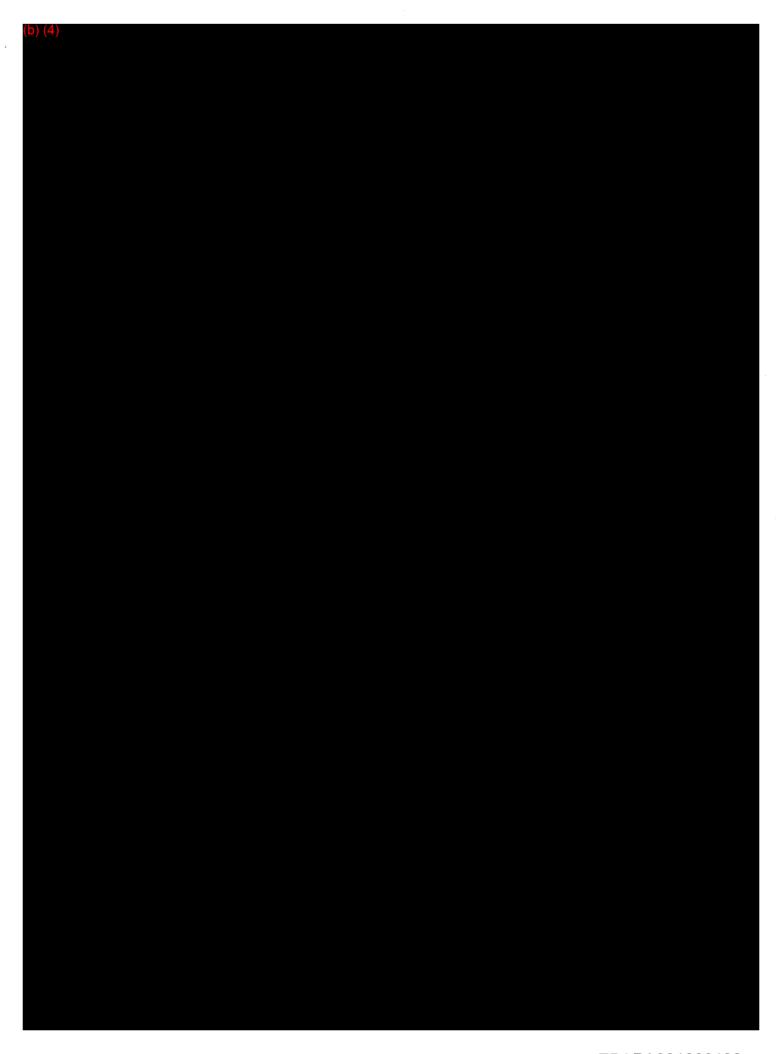


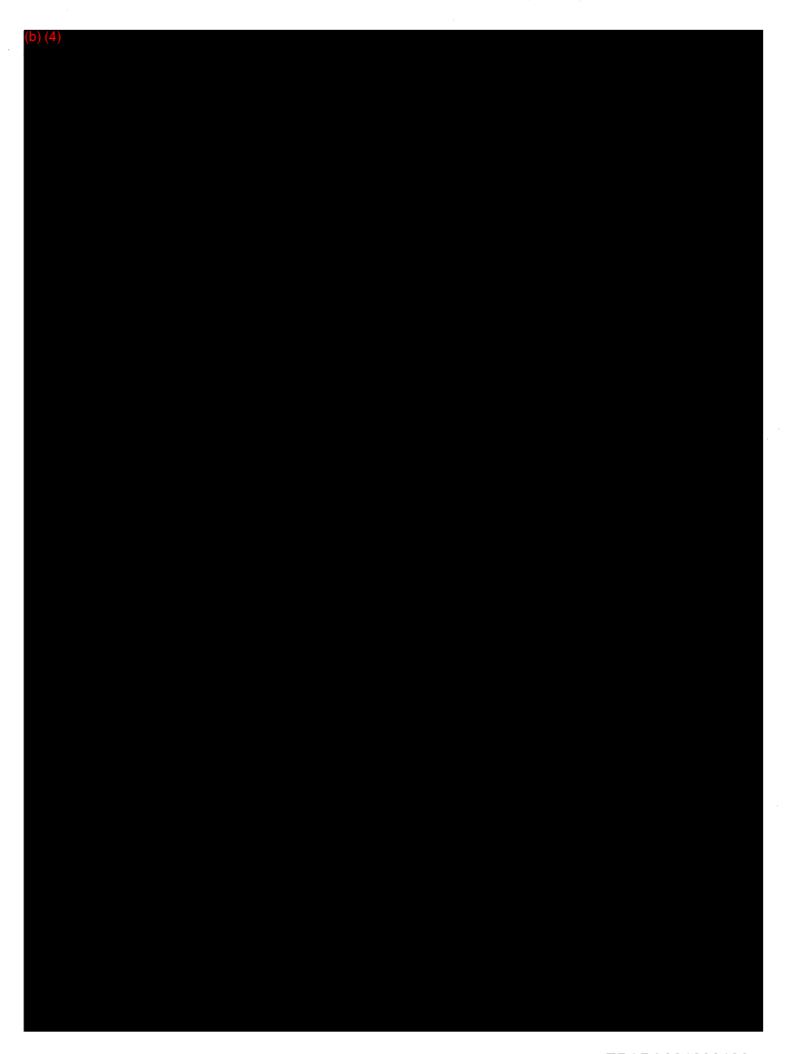
7.	Tests for Product Recovered/Recycled (if applicable):
	Sel Special testing vegnissements.
8.	Management for Product Recovered/Recycled (if applicable);
	See treatment & handling protocol



One example Material Safety Data Sheet











*** END OF MSDS ***

SHEC-DU



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 8/22/2008

Dear Ed Cox

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2945

Expiration Date 8/21/2010

Producer: Afton Chemical Corporation

Address:

Suget, IL 62201

Material / Product Information

Name of Material / Product hitec 307 performance additive

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

out of date product

Color: clear

Odor: pungent

pH: neutral

Physical State:

Incompatibilities: strong oxidizers **Safety Related Data/Special Handling:**

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



JB

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

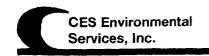
http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mater	ial Producer Inform	<u>iation</u>			
Company:	Afton Chemical Co	orportation			
Address:	501 Monsanto Ave	nue			
City, State, Zip:	Suget, Il 66201				
Contact:	Ed Cox		Title:		
Phone No:	(618) 583-1078		Fax No:	(618) 583	-1388
24/hr Phone:	(618) 583-1078		•		
U.S. EPA I.D. No:	na		-		
State I.D.	na		SIC Code:	na	
			•		
SECTION 2: Billing	Information - MS	ama as Ahaya			
Company:	initiniation - 67 5	ame as Above			
Address:					
_		·			
City, State, Zip:		772.47	,,		
Contact:		Title:			
Phone No:		Fax No:			
SECTION 3: Gener	al Description of the	Material / Product			
	11.1 3	and Protessing Ad	witiac		
Name of Material / F	roduct: Hitee				
Detailed Description	of Process Generati	ng or Producing the Mater			
	nut	- ofdate produ	1		
			_		
Physical State:	Liquid	☐ Sludge ′	Powder		
	☐ Solid	Filter Cake	Combinatio	n	
		Esternal 12 11 12 11 11 11 11 11 11 11 11 11 11	_		
Color: CleAr	0	dor: Pungent			
C0101	•	401. 1 2 1 3 2 2 .			
a .e a		D 11 . (.1			
Specific Gravity (was	ter=1): <u>\</u>	Density: 8.32 lbs/gal			
Does this material co	ntain any total phen	iolic compounds? Yes	No		
				/	•
Does this material co	ntain any para subs	tituted phenolic compound	s? 🔲 Yes 📙	No	
Layers:	Single-phase	Multi-phase			
Container Type:	Drum	Tote	Truck		Other (explain)
Container Size:					,
Container Size.	<u>55 gal</u>				
Frequency:	☐ Weekly	☐ Monthly ☐	Quarterly		Yearly
Number of Units (cor	-	Other:			•
ramber of Chies (col	itamici sj. 1				
		Product			
Proper U.S. DOT Shi	ipping Name:	Combustible Liquids,	N.O.S.,(Sulfuri	zed olefins)	
-			· · · · · · · · · · · · · · · · · · ·		
Class: 3	UN/NA	: NA1993	PG: III		RO: 1000 lbs

	*			. 1	
Flash Point	Nontra 1	N/A	N/A	Solid	s %
Oil&Grease	TOC	Zinc	Copper	Nickel	
21500 _{mg/l}	Lis Edmg/I		mg/l		
SECTION 4: Physic	al and Chemical D	<u>Pata</u>			
	COMPONEN			Concentration	Units
		s of the following materia		inges are acceptable	or %
Hiter 307 Po	rformance A	Jolitic ISee Mg	.00	104	a("
Standard SECTION 6: Attach List all documents, n HITEC 307 MSDS SECTION 7: Incomp Please list all incomp Strong Oxidizers SECTION 8: Materi The information conta attached description is omissions of composit	ed Supporting Doc otes, data, and/or a patibilities atibilities (if any): al Producer's Cert ined herein is based as complete and accion properties exist	analysis attached to this fo	orm as part of the Ige and/or 🛛 analy Inowledge and abi	material / product pr	ofile. ertify that the above and no deliberate or willful
Authorized Signature	:			Date:	
Printed Name/Title:					
Timed Name True.	The state about the state and state about the state and state and state about the state and state about the state and state and state about the state about	· · · · · · · · · · · · · · · · · · ·			
CES USE ONLY (DO NO					
Technical Manager: \int Date: $8 - 21 - 0$	John Th				
Date: 8-21-0	g (App	proved Rejected			•

Approval Number:



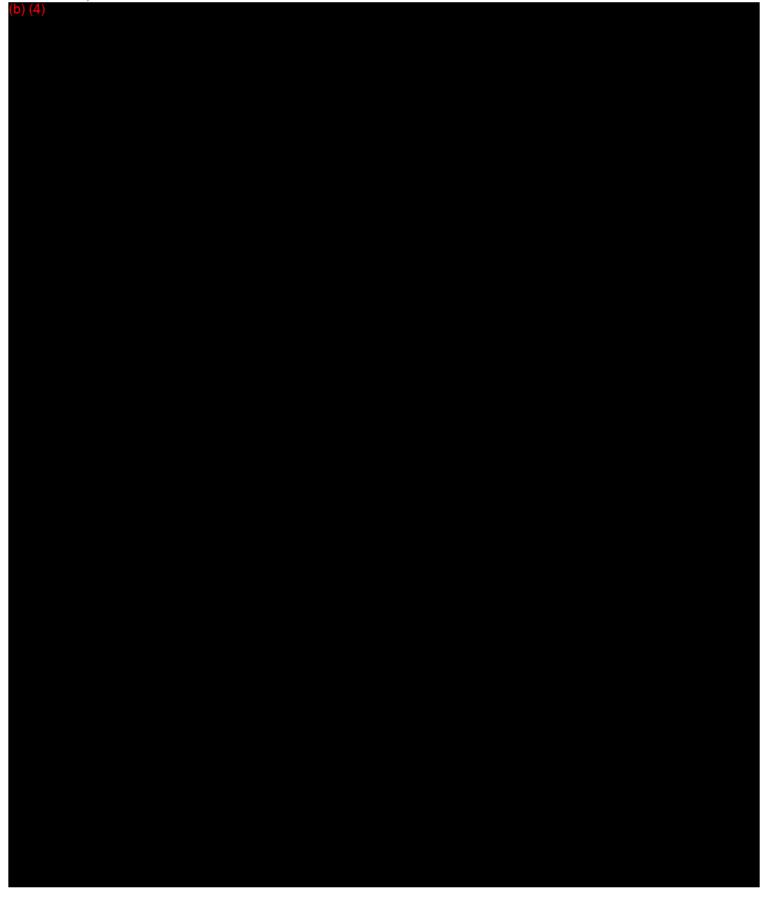
1.	Base Pricing (including freight):
	Base Pricing (including treight): If brought in By CES on PCI back havel: no chaze! no payment. If brought in by ontside transporter at customer expanse: pay \$0.15/gat
	no payment.
	If brought in by ontside transporter as consister expense:
	pay \$0.15/get
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
1	Special Testing Requirements:
4.	
	Rocard quantity in each down. Number each down and record amount and product type on invendory
	and recova knowns are process you
ĺ	Us.
5.	Treatment and Handling Protocol:
	Once invendory has been given to product sales,
	Once invendory has been given to product seles, the material will be resold so is, according as
	directed by product siles person.
	<i>y</i> , , , , , , , , , , , , , , , , , , ,
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
Ĺ	



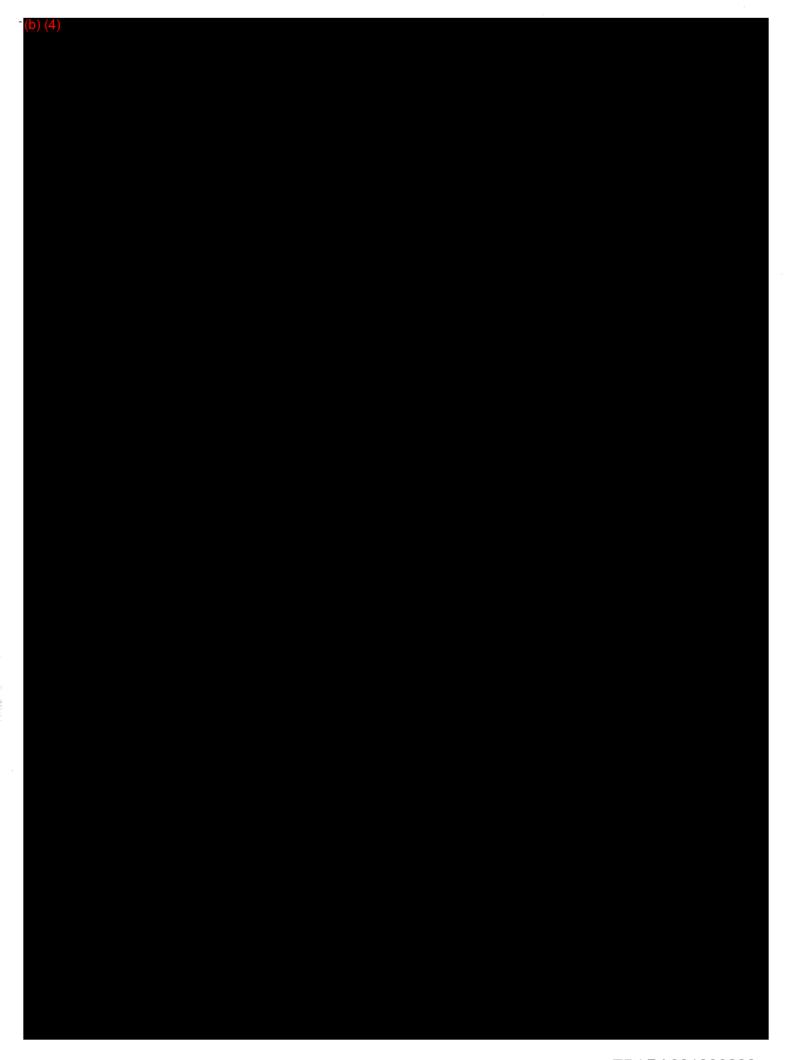
7.	Tests for Product Recovered/Recycled (if applicable):
	see special testing requirements
8.	Management for Product Recovered/Recycled (if applicable);
I	"See treatment & nandling protocol

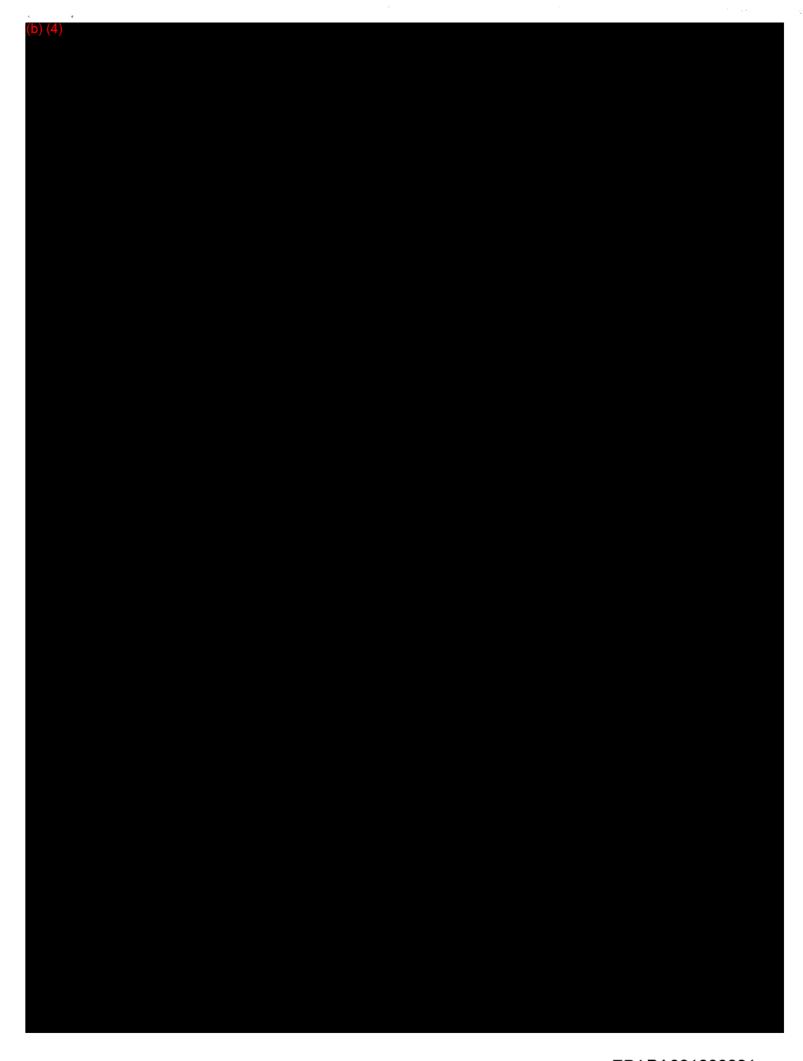


Material Safety Data Sheet



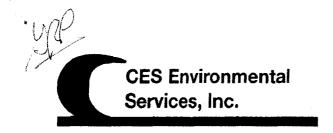












AL

4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 8/22/2008

Dear Ed Cox

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2945

Expiration Date 8/21/2010

Producer: Afton Chemical Corporation

Address:

Suget, IL 62201

Material / Product Information

Name of Material / Produc Additives - combustible

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

out of date product

Color: clear

Odor: pungent

pH: neutral

Physical State:

Incompatibilities: strong oxidizers
Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

CES Environmental Services, Inc.

JB

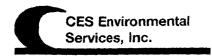
4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

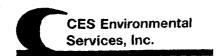
TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mate	erial Producer Inform	nation			
Company:	Afton Chemical C				
Address:	501 Monsanto Av	enue			
City, State, Zip:	Suget, Il 66201				
Contact:	Ed Cox		Title:		
Phone No:	(618) 583-1078		Fax No:	(618) 583	3-1388
24/hr Phone:	(618) 583-1078				
U.S. EPA I.D. No:	na				
State I.D.	na		SIC Code:	na	
SECTION 2: Billin	g Information – 🔯	Same as Above		•	
Company:					
Address:					
City, State, Zip:					
Contact:		Title:			
Phone No:		Fax No:			
_					
SECTION 3: Gener	ral Description of th	e Material / Product			
			مستاه فالعا		
Name of Material / 1	Product:	116 - Combustible	-		
Detailed Description	of Process Generat	ing or Producing the Mat	erial / Product:		
OH	- Spec / OU-	t ofdate prod	111		
		- paul	-		
Physical State:	Liquid	☐ Sludge ′	Powder		
	☐ Solid	Filter Cake	Combinatio	n	
Color:	(Odor:			
		•			
Specific Gravity (wa	tor-1)	Density - s/gal			
specific Gravity (wa	nei –1)	Density s/gal			
N 41.9 4	4 - 5 4 - 4 - 1 5		[TT] arti		
Does this material co	ontain any totai phei	nolic compounds? 🔲 Yes	No		
Does this material co	ontain any para subs	stituted phenolic compour	nds? 🗌 Yes 🕒	∃No	
Layers:	Single-phase	∐ Multi-phase			
Container Type:	□ Drum	Tote [Truck	Г	Other (explain)
V -			_ fruck	ш	Other (explain)
Container Size:	<u>55 gal</u>				
Frequency:	☐ Weekly	Monthly [Quarterly		Yearly
- •	_	-		Ш	1 Cally
Number of Units (co	ntainers):	Other:			
		Product			
Proper U.S. DOT Sh	ipping Name:	Combustible Liquids	s, N.O.S.,(Sulfuri	zed olefins)	
Class: 3	UN/N	A: NA1993	PG: III		RQ: 1000 lbs
J1433. J	O14/14/	T. 17/11/2/2	rG: III		NV. TOUU IDS

4			·*			
Flash Point 4 200 ° C	рн 3-11	N/A	N/A	Solids	0/0	
Oil&Grease	TOC	Zinc mg/l	Copper	Nickel mg/l		
71.30°mg/1	<u>~*5 ~ mg/1</u>	mg/i	nig/i	1		
SECTION 4: Physic	al and Chemical Da	<u>ta</u>				
	COMPONENTS			Concentration	Units	
The materia		of the following materia	ls Ra	nges are acceptable	or %	
Performa	me Fre	Additive		100	%	
				·	 	
		•			- 	
SECTION 5: Safety	Related Data			•		
If the handling of this Standard	s material / product	requires the use of spec	cial protective equi	pment, please explain	•	
SECTION 6: Attach	ed Supporting Docu	ments				
		alysis attached to this fo	orm as part of the	material / product pro	ofile.	
See MSDS	· · · · · · · · · · · · · · · · · · ·	drive : Costome	•			
SECTION 7: Incomp			2 1.00(03) 11 1			
Please list all incompa						
SECTION 8: Materia	al Producer's Certif	ication				
The information containattached description is omissions of composit	ned herein is based of complete and accuration properties exist a	on generator knowled rate to the best of my kand that all known or sucribed by this document.	nowledge and abil	ity to determine that i	10 deliberate or willful	
Authorized Signature	: No signad	ne ry'd-p	roduct	Date:		
Printed Name/Title:						
CES USE ONLY (DO NOT	WDITE IN THE COA	(P)				
) 00	EJ				
Technical Manager: faluathy						
Date: 8-21-0	(Appro	oved Rejected				
Approval Number:	2945					



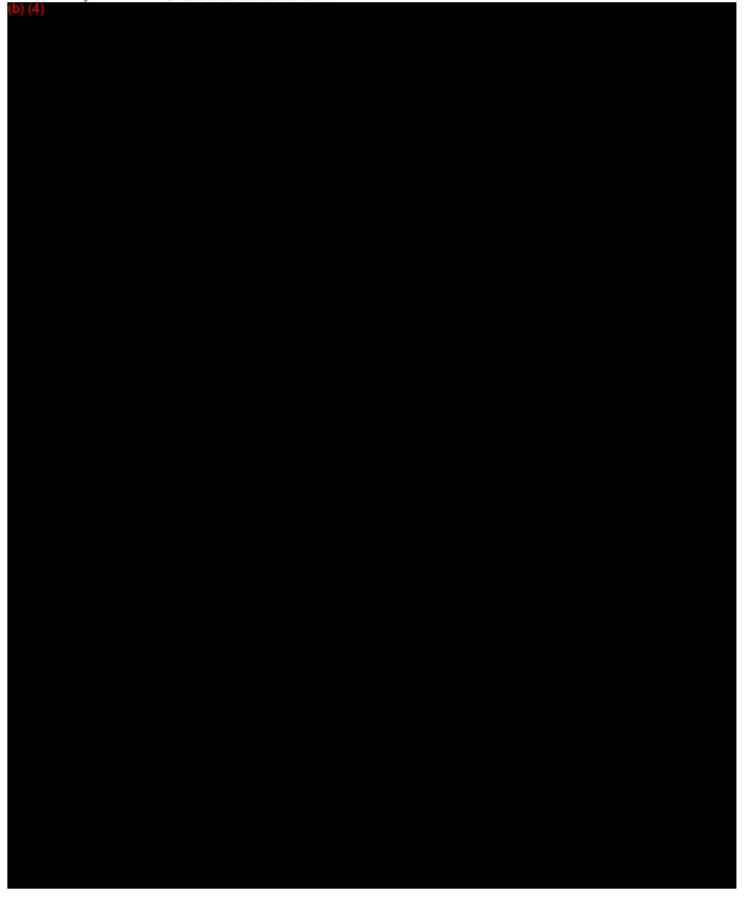
1.	Base Pricing (including freight):
	If brought in By CES on PCI backhaue: no chage! no payment. If brought in by ontside transporter at customer expanse: pay \$0.15/get Pay \$,019/ggst parend
2.	Contamination Limits (maximum limit before surcharges apply):
	Il douns are dong god and are in an overpoch and operating. determines too many manhane are used to recover the material then there will be no. The payment.
3.	Surcharge Pricing:
4.	Special Testing Requirements:
5.	Rocord quantity in each down. Number each down and record amount and product type on inventory US. Bird to Istal pallows the top a record than a capy of the top with most to place in bound for total gallows. Treatment and Handling Protocol: Save to so an in bound so should total received.
	Once invendory has been given to product sales,
	the material will be result to is, according to directed by product sales person.
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



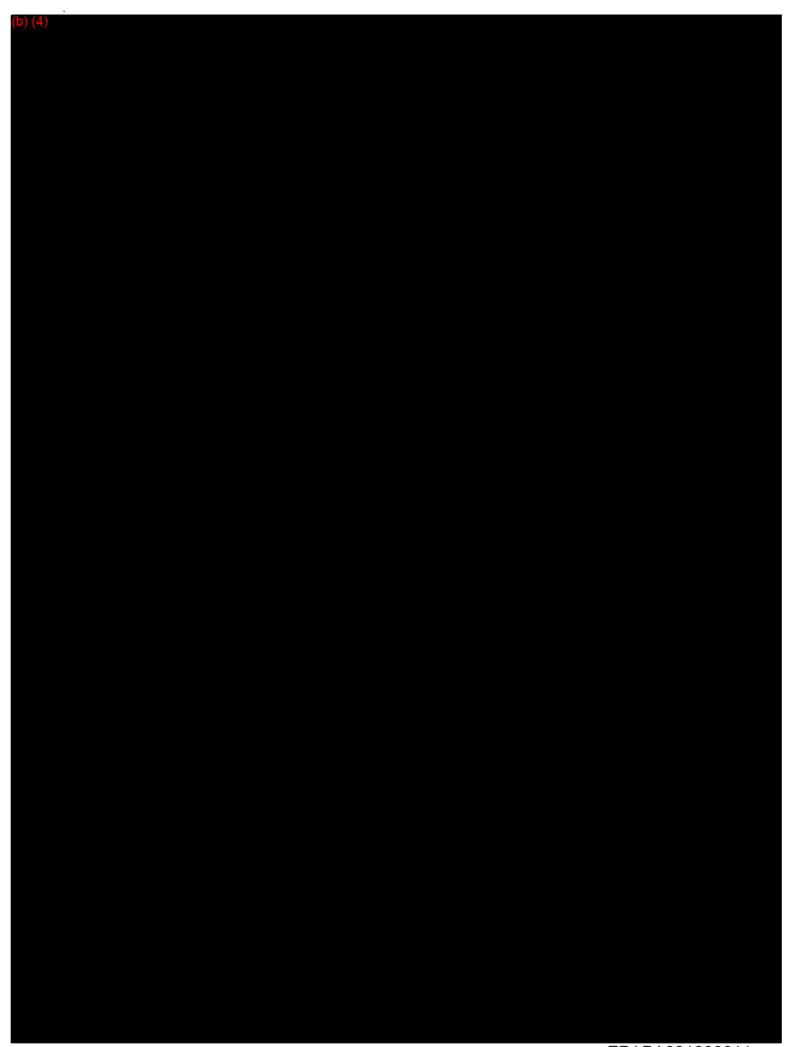
7.	Tests for Product Recovered/Recycled (if applicable):
	Sel Special festing requirements
8.	Management for Product Recovered/Recycled (if applicable):
	"See treatment & nandling protocol

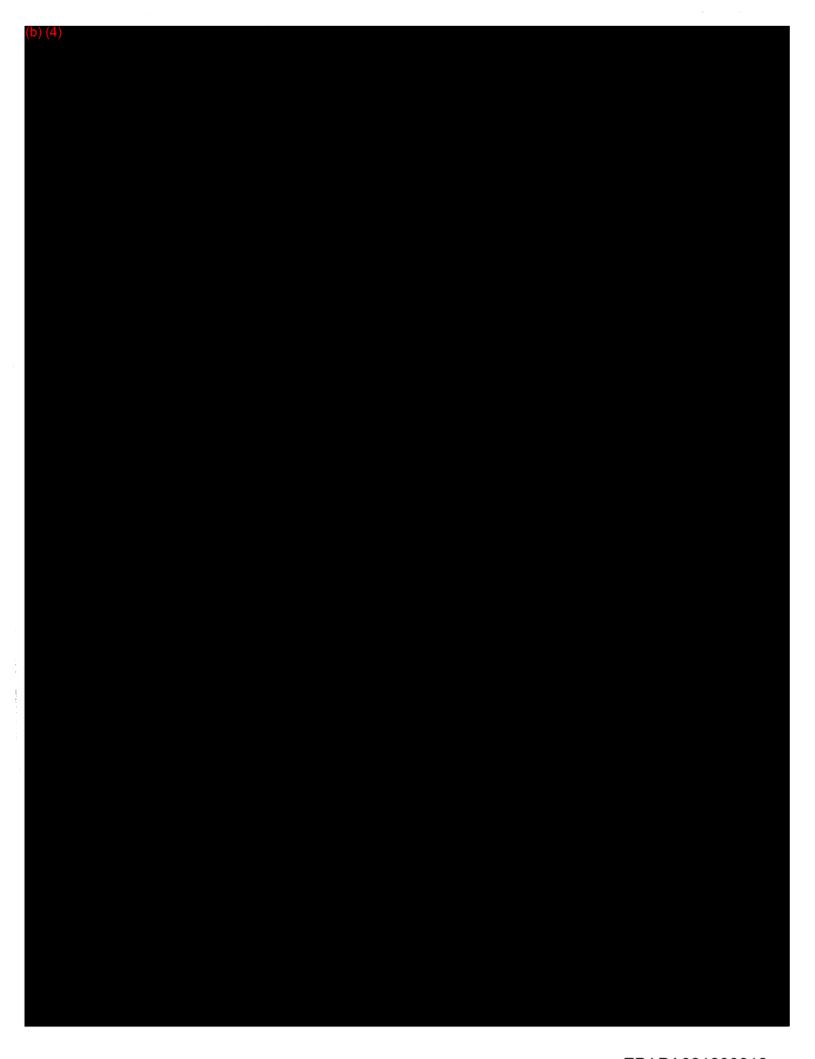


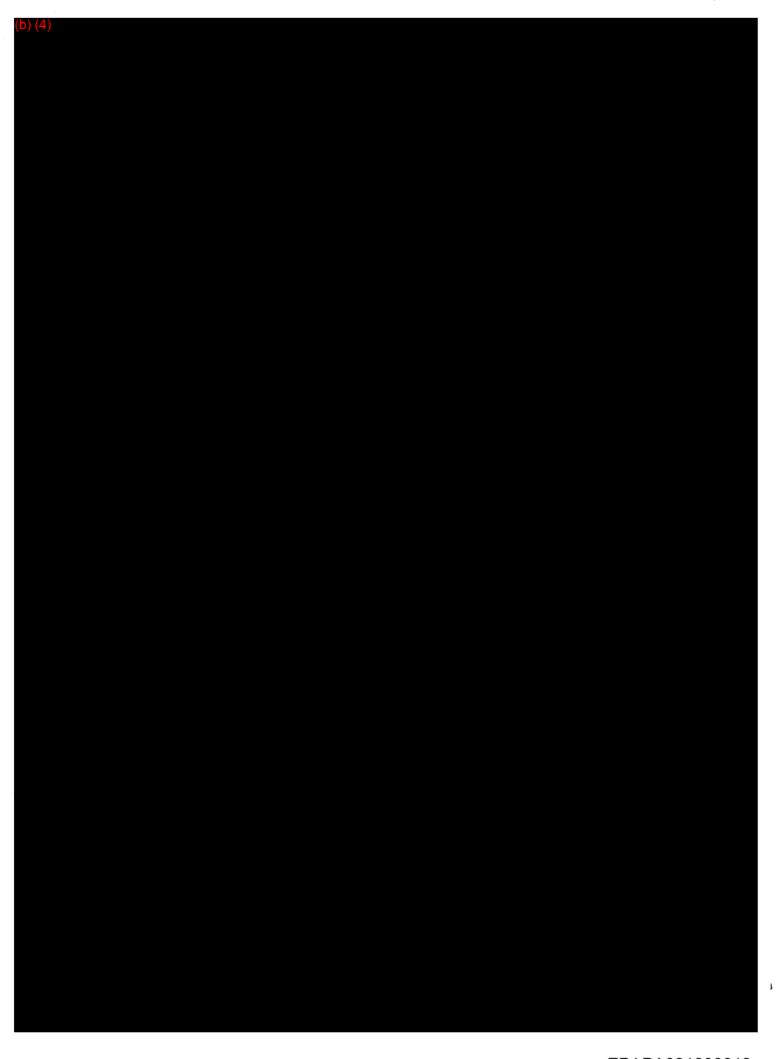
One example Material Safety Data Sheet





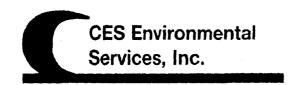








PA-2981



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 9/9/2008

Dear Ed Cox

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2981

Expiration Date 9/9/2010

Producer: Afton Chemical Corporation

Address: Suget, IL 62201

Material / Product Information

Name of Material / Product Afton viscosity modifier

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Afton viscosity modifier

Color: varies

Odor: varies

pH: 3-11

Physical State:

Incompatibilities: strong oxidizers **Safety Related Data/Special Handling:**

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.





JB

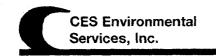
4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

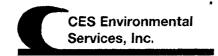
TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mate	rial Producer Inform	nation			
Company:	Afton Chemical C				
Address:	501 Monsanto Av	enue			
City, State, Zip:	Suget, Il 66201	······································			
Contact:	Ed Cox	· · · · · · · · · · · · · · · · · · ·	_ Title:		
Phone No:	(618) 583-1078		_ Fax No:	(618) 58	3-1388
24/hr Phone:	(618) 583-1078		_		
U.S. EPA I.D. No:	na		erc c .		
State I.D.	na		_ SIC Code:	na	
SECTION 2: Billin Company: Address: City, State, Zip:	g Information – 🔀 🤉	Same as Above			
Contact:		Title:			
Phone No:		Fax No:			
Name of Material / I Detailed Description Physical State:		Vibashy Me ing or Producing the Mate Sludge Filter Cake		n	
Color: YMito		Odor: V(W)			
Specific Gravity (wa	ter=1): <u>\(\square\) \(\square\)</u>	Density Vailo lbs/gal			
Does this material co	ontain any total phe	nolic compounds?	Ş No		
Does this material co	ontain any para subs	stituted phenolic compoun	ds? 🗌 Yes 🗋	⊠ No	
Layers:	Single-phase	☐ Multi-phase			
Container Type: Container Size:	☑ Drum 55 gal	Tote	Truck		Other (explain)
Frequency:		Monthly] Quarterly	П	Yearly
Number of Units (co	- •		1 Quarterly		rearry
Proper U.S. DOT Sh	ipping Name:	Non RCRA Non DO	T Regulated Mat	erial	
Class: na	UN/N	A: na	PG: na		RQ: na

Flash Point	pH	N/A	N/A		Solids	
Oil&Grease	TOC	Zinc	Copper	Nickel	<u>4_%</u>	
<u>>[\$00</u> mg/l	<u>NA</u> mg/l	WA mg/l	<u> NÃ mg/l</u>	NA n	ng/l	
SECTION 4: Physic	al and Chemical	<u>Data</u>	•			
	COMPONEN			Concentration		
		ts of the following materia	ls Ra	inges are accept	able or %	-
Gre MS Viscosit	n Modifi			100	0/5	-
V12C0213) "(00/1)			100		-
]
· · · · · · · · · · · · · · · · · · ·						
			<u></u>			_
SECTION 5: Safety	Related Data					
		at waaniwaa tha aas af a sa	dal muaka di		1 - *	
If the handling of this Standard	s material / produ	act requires the use of spec	cial protective equ	ipment, please e	explain.	
SECTION 6: Attach						
List all documents, no らに MS DS	otes, data, and/or	analysis attached to this for	orm as part of the	material / produ	uct profile.	
	J	Delive Coloran	~ 1~ 105 ×	सुन्य <i>।</i> १८		
SECTION 7: Incomp	<u>patibilities</u>					
Please list all incompa Strong Oxidizers	atibilities (if any):					
SECTION 8: Materi	al Producer's Cer	tification				
attached description is omissions of composit	s complete and action properties exist	ed on generator knowled curate to the best of my kest and that all known or sustlescribed by this document.	nowledge and abi	lity to determine	that no delibera	te or willfu
Authorized Signature	: None regr	ives product		Date:		
Printed Name/Title:	•	1				
CES USE ONLY (DO NOT	WRITE IN THIS SP	PACE)	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
echnical Manager:	eld II	egk				
		• 1				
Date: 9-9-08	(Ap	proved Rejected		•		



1.	Base Pricing (including freight):
	Pay \$0.15/gal FOB CES No charge /No payment if backhauled by CES
	No charge /No payment if backhauled by CES
	Pay \$.019/ pound
2.	Contamination Limits (maximum limit before surcharges apply):
	It damaged drives are in an overpach and aparations determines that too many man hours are needed to recover the material
	then there will be no payment.
2	Surahawa Duiaina
s. 	Surcharge Pricing:
Ì	
4.	Special Testing Requirements:
	Pull retain sample. Record drum number and quantity on drum inventory and give to product sales.
	m oran monder of and give so pro-
5.	Treatment and Handling Protocol:
	Either Communicate with product sales person to determine
	if material needs to be bulked or sold-as-is.
	if material needs to be bulked or sold-as-is. If heeds to be bulked, dehead drums and bulk into is a constainers, Notify product sals when ready to ship Scrape drums before Shredding
,).	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7.	Tests for Product Recovered/Recycled	(if annliaghla)
/ •	1 ests for Product Recovered/Recycled	til applicable):

See special testing

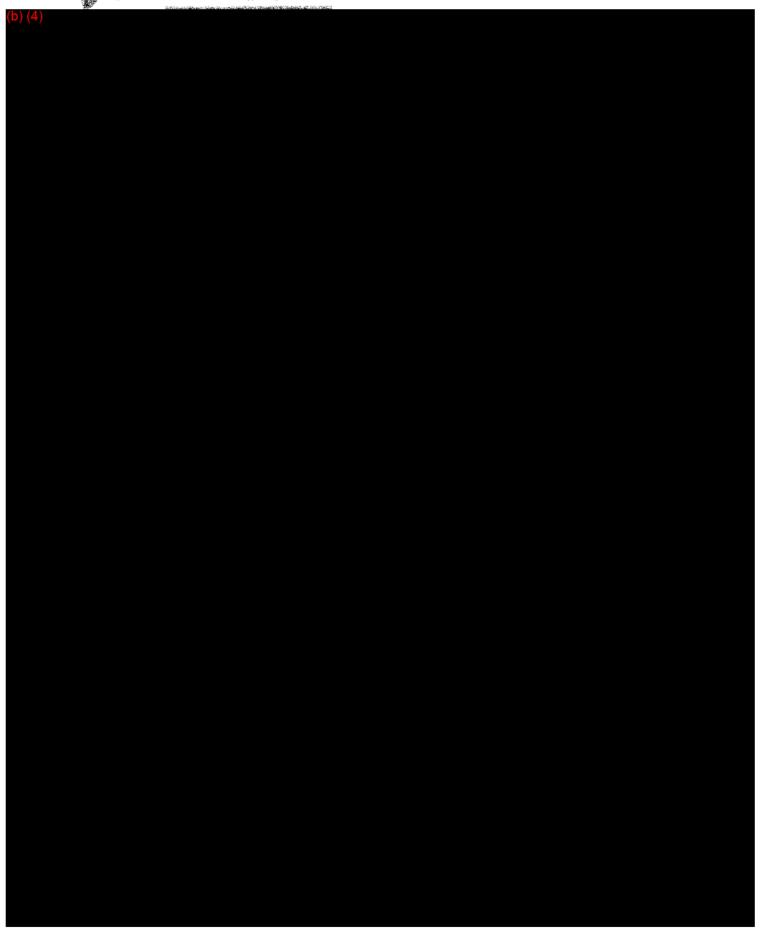
8. Management for Product Recovered/Recycled (if applicable);

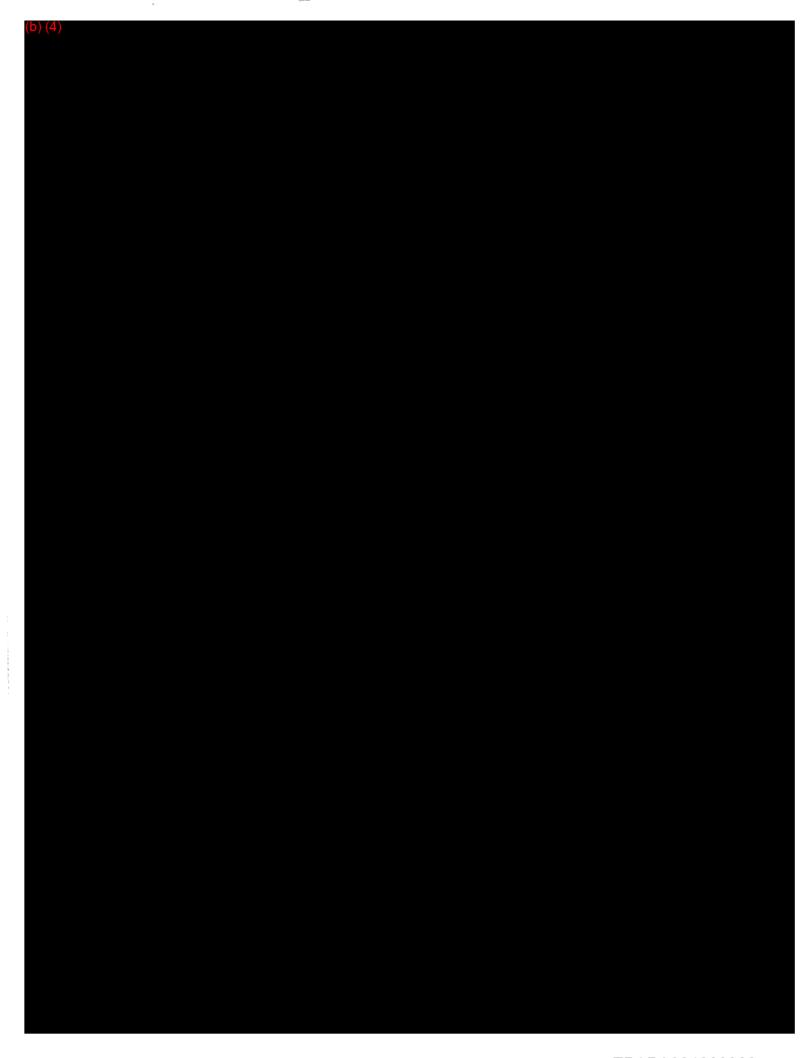
see treatment and handling protocol

One example



Material Safety Data Sheet





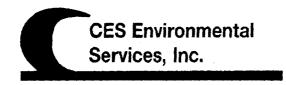






* * * END OF MSDS * * *

PA-2982



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 9/9/2008

Dear Ed Cox

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2982

Expiration Date 9/9/2010

Producer: Afton Chemical Corporation

Address:

Suget, IL 62201

Material / Product Information

Name of Material / Product Afton viscosity modifier w/flush oil

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Afton viscosity modifier w/flush oil

Odor: varies

pH: 3-11

Color: varies **Physical State:**

Incompatibilities: strong oxidizers Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021

JB

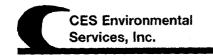
Fax: (713) 676-1676

http://www.cesenvironmental.com

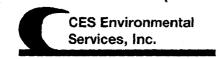
TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Mate	rial Producer Inform	ation			
Company:	Afton Chemical Co				
Address:	501 Monsanto Ave	nue			
City, State, Zip:	Suget, Il 66201				
Contact:	Ed Cox		Title:		
Phone No:	(618) 583-1078		Fax No:	(618) 583	3-1388
24/hr Phone:	(618) 583-1078				
U.S. EPA I.D. No:	na				
State I.D.	na		SIC Code:	na	
SECTION 2: Billin	g Information – 🔀 S	ame as Above			
Company:					
Address:					
City, State, Zip:					
Contact:		Title:			
Phone No:		Fax No			
	· · · · · · · · · · · · · · · · · · ·				
SECTION 3: Gener	ral Description of the	Material / Product			
		Viscosity Mod ng or Producing the M			L
Physical State:	∏ Liquid □ Solid	☐ Sludge ☐ Filter Cake	☐ Powder ☐ Combinatio	n	
Color: Vari 10	O	dor: Varis			
Specific Gravity (wa	nter=1): <u>VM</u> i 40	Density:lbs/ga	al		
Does this material co	ontain any total phen	olic compounds? 🔲 Y	es No		
Does this material co	ontain any para subs	tituted phenolic compo	unds? 🗌 Yes 🏻 [□No	
Layers:	⊠ Single-phase	☐ Multi-phase	:		
Container Type:	□ Drum	☐ Tote	Truck		Other (explain)
Container Size:	<u>55 gal</u>		***************************************		
Frequency:	☐ Weekly	Monthly	☐ Quarterly	П	Yearly
	ntainers): VW		-		
rainiber of Chits (Co	mamers). VIN				
		Produit			
Proper U.S. DOT St	ipping Name:	Non RCRA Non I	OOT Regulated Ma	terial	
Class: na	UN/NA	na na	PG: na		RQ: na

Flash Point	pH	N/A	N/A	Solid	ls
Oil&Grease	3-11 TOC	Zinc	Copper	Nickel	_%
7 501 mg/1	NA mg/l	NA mg/l	N A mg/l	NA mg/l	
SECTION 4: Physic	al and Chemical D	ata			
	COMPONENT	IS TABLE		Concentration	Units
The materia	d / product consists	of the following materia	ls Ran	iges are acceptable	or %
	(New	ral Oil w/ Visc	osity Modifier) 100	3/5
		· · · · · · · · · · · · · · · · · · ·			
					
SECTION 5: Safety	Related Data				
		t requires the use of spec	oial neotactiva aquir	rmant nlagse evnlgi	n
Standard Standard	, materiar / produc	i requires the use of spec	nai protective equip	ment, piease expiai	11+
SECTION 6: Attach					
List all documents, no	otes, data, and/or a	nalysis attached to this fo	orm as part of the n	naterial / product pi	rofile.
See MSDS	m snarke c	hire: Customer	M2122. 12th		
SECTION 7: Incomp	<u>patibilities</u>				
Please list all incompa	atibilities (if any):				
Strong Oxidizers					
SECTION 8: Materi	al Producer's Cert	ification			
		on generator knowled	oe and/or 🕅 analyt	ical data - I hereby c	ertify that the above and
attached description is	complete and acc	urate to the best of my k	nowledge and abili-	ty to determine that	no deliberate or willful
		and that all known or sus	spected hazards have	e been disclosed. I	certify that the materials
tested are representativ	e of all materials de	scribed by this document.			
Authorized Signature	:			Date:	
Printed Name/Title:					
rrinted Name/Title:					
CES USE ONLY (DO NOT	WRITE IN THIS SDA	(CE)			
_		,			
Technical Manager: 🎾	oben Ro	pol			
Date: <u> </u>	Ann	roved Rejected			
04 4 00	— (App	Acjecieu Acjecieu			
	1087				



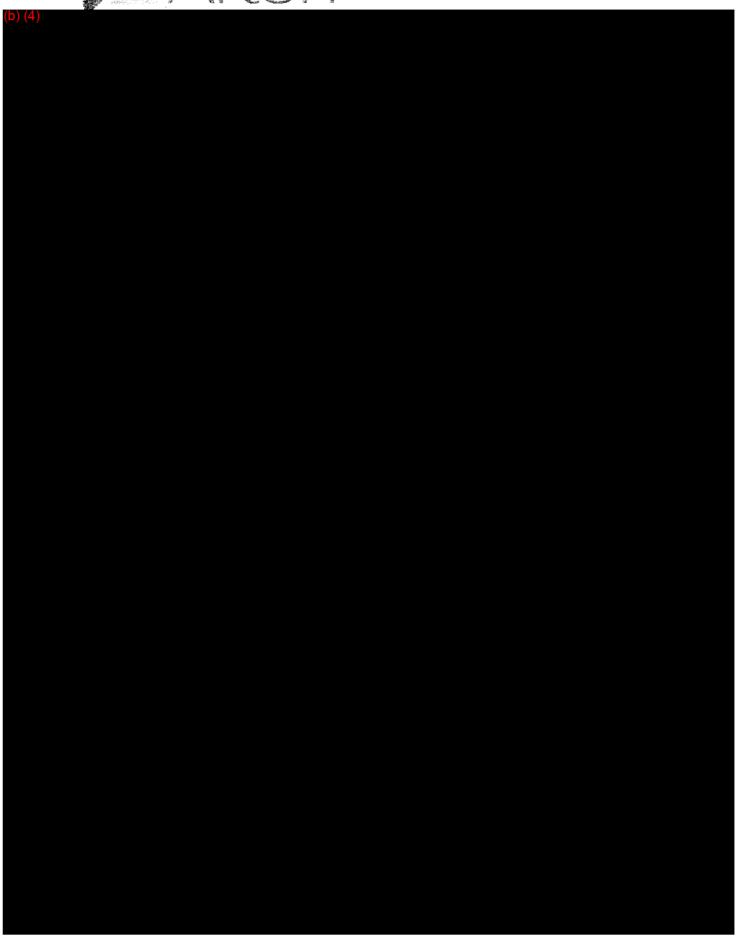
1.	Base Pricing (including freight):
	Pay \$0.15 FOB CES.
	No Payment INO charge for backhauled loads by
	No Payment INO charge for backhauled loads by CES. Pay B.019/pound
2.	Contamination Limits (maximum limit before surcharges apply):
	Very thick material. If operations management thinks this material to so thick to emsume too many man hours then there may be so thick to ensume too many man hours then there may be no payment for material. It down get drums are in orn he no payment for material.
	he no payment for moleniet. It down gest sheen with
	packs + operations determines too many man hours with
3.	Surcharge Pricing:
4	Special Testing Requirements:
٦.	Dul retain sample If this enough in consistency the
	is all he by Red into (2) base or .
	in a sister of volume and anim (riveway)
	Record hay think the material of the Brand o
5.	
	Process as base oil
	operations manager determination. Material is very thicker operations. Have product sales and ups. manager look at sample.
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



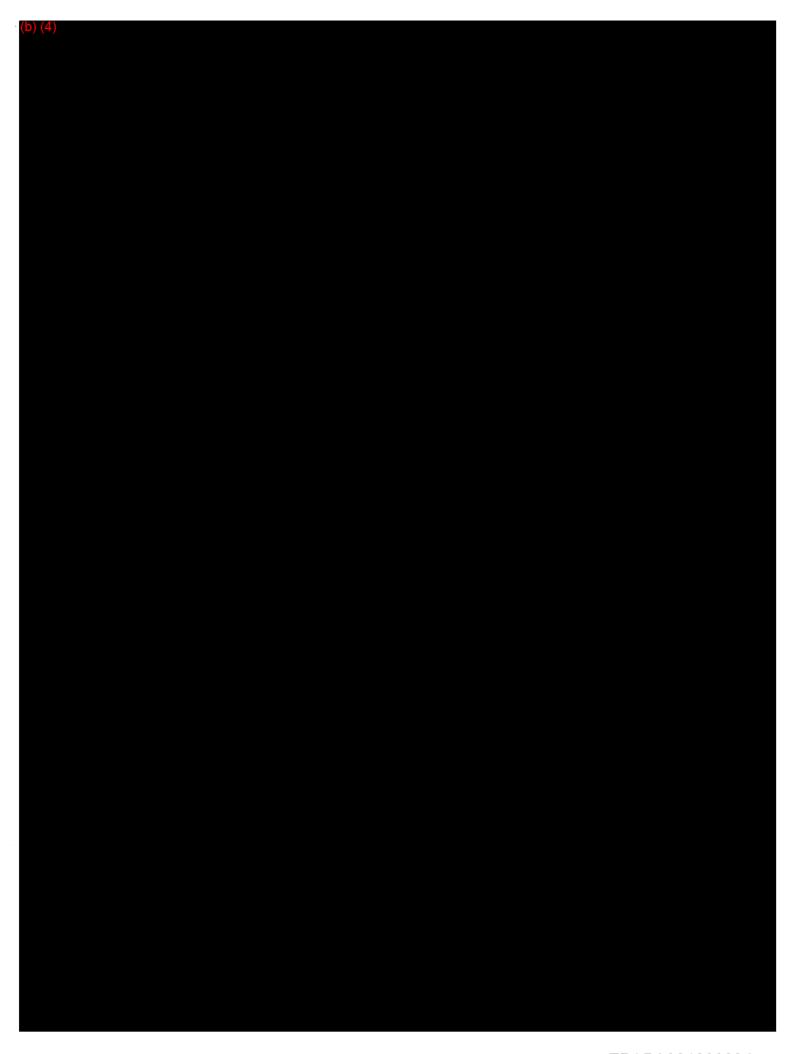
7.	Tests for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable);
i	

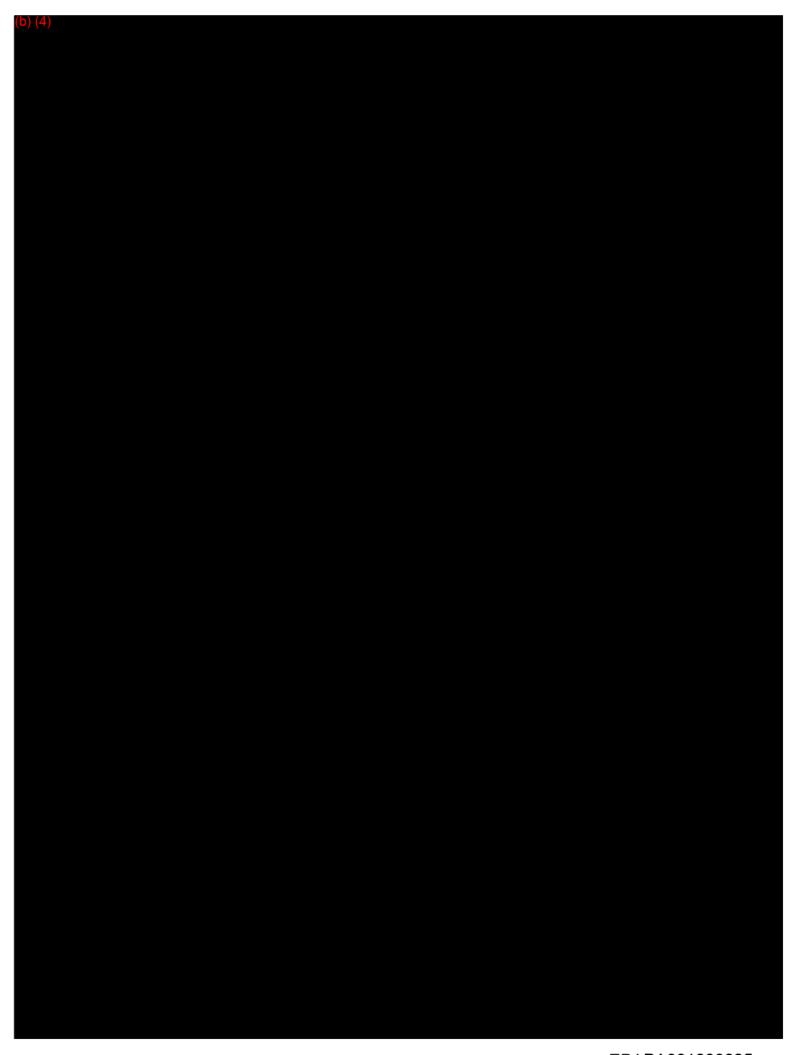


One example Material Safety Data Sheet



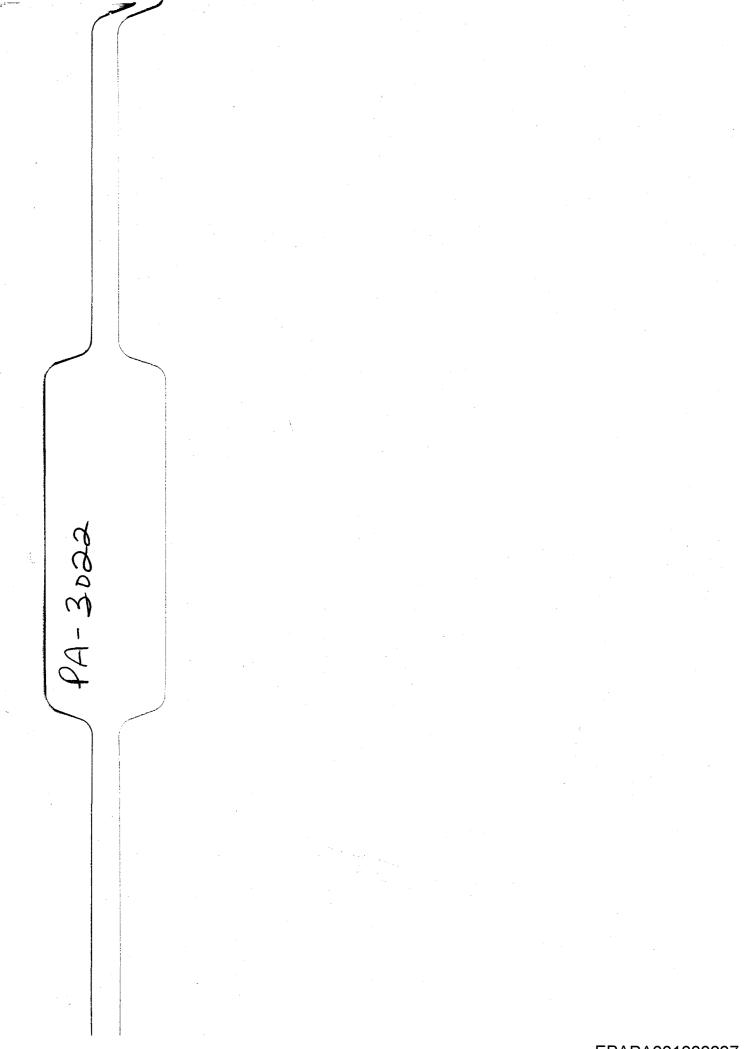


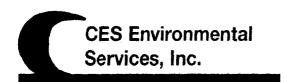






*** END OF MSDS ***





4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 10/7/2008

Dear Ed Cox

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3022

Expiration Date 10/7/2010

Producer: Afton Chemical Corporation

Address:

Suget, IL 62201

Material / Product Information

Name of Material / Product Additives - Flammable, corrosive

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Off-spec / out of date product

Color: brown

Odor: phenol like

pH: <2.5 or >12.5

Physical State:

Incompatibilities: Strong oxidizers **Safety Related Data/Special Handling:**

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



JB/AL

CES Environmental Services – Houston Facility
4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

 \[
 \] CES Environmental Services − Port Arthur Facility
 2420 S. Gulfway Drive, Port Arthur, TX 77641

 Phone: (713) 676-1460 Fax: (713) 676-1676

 U.S. EPA ID No: TXR000079307 ISWR No: 88585

SECTIO	ON 1: Mater	ial Producer Inforn	nation				
Compan	ıy:	Afton Chemical C	orporation				
Address	:	501 Monsanto Ave	enue				
City, Sta	ate, Zip:	Suget, IL 62201					
Contact	•	Edward Cox			Title:		
Phone N	o:	(618) 583-1078			Fax No:	(618) 58	3-1078
24/hr Ph							
U.S. EPA	A I.D. No:						
State I.D) .	* * * * * * * * * * * * * * * * * * *			SIC Code:		
SECTIO Compan Address: City, Sta	y:	Information — 🔀 S	Same as Above				
Contact:				Title:			
Phone N	*******			Fax No:	***************************************	, Marting and Control of the Control	
	-						
SECTIO	N 3. Genera	al Description of the	Material / Pro	duct			
OLCITO	ir or Genera	11 D C C C 1 1 D C C C C C C C C C C C C		2.24.0.2			
		roduct: <u>Additives-</u> of Process Generati			ıl / Product:	off spec / o	ut of date product
Physical	State:	☑ Liquid☑ Solid	☐ Sludge ☐ Filter Ca		Powder Combinati	on	
Color: _	Boown	C	dor: <u>Ph</u> end				
Specific (Gravity (wat	er=1): <u>1.05</u>	Density: <u>&</u>	Ibs/gal			
Does this	material co	atain any total pher	olic compound	s? Yes	⊠ No		
Does this	material co	ntain any para subs	tituted phenolic	e compounds?	Yes	⊠ No	
Layers:		Single-phase	Mul	lti-phase			
Containe	r Type:	Drum	☐ Tote	П	Truck	П	Other (explain)
Containe		55 gal	Construction of the Constr				
Comanic	1 Gize.	<u>oo gar</u>		/	***************************************		
				./			
Frequenc		☐ Weekly	☐ Monthly	✓	Quarterly		Yearly
Number	of Units (con	tainers): <u>10</u>	Oth	ner:			
	,		Product	-			
•		* X.Y	1700WU	1 31 11 0			
Proper U	.s. DOT Shi	pping Name:	Flammab	le liquid, Corre	osive, N.O.S	. (alkaryl pho	osphate)
Class:	3(8)	UN/NA	1: UN 2924		PG: P	G III	RQ: 1000 lbs

Flash Point	pН	N/A	N/A	Solids
<u><140</u>	<2.5 or >12.5			0%
Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	<1500mg/l	0mg/l	Qmg/l	<u>O</u> mg/l

SECTION 4: Physical and Chemical Data

re acceptable	or %
	0/2
	/0
Mining the many against an an against an an against an an against an against an against an against an against a	1
>=	
	
**************************************	+

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain. Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. See MSDS on shared drive: Customer MSDS: Afton

SECTION 7: Incompatibilities

Authorized Signature:

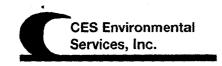
Printed Name/Title:

Please list all incompatibilities (if any): Strong Oxidizers

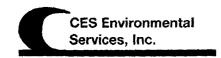
SECTION 8: Material Producer's Certification

The information contained herein is based on \boxtimes generator knowledge and/or \boxtimes analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager: Physical Manager:	
Date: 10-7-08 (Approved) Rejected	
Tapper and	
Annual Assertation of the Control of	
Approval Number: 3022	
A A	



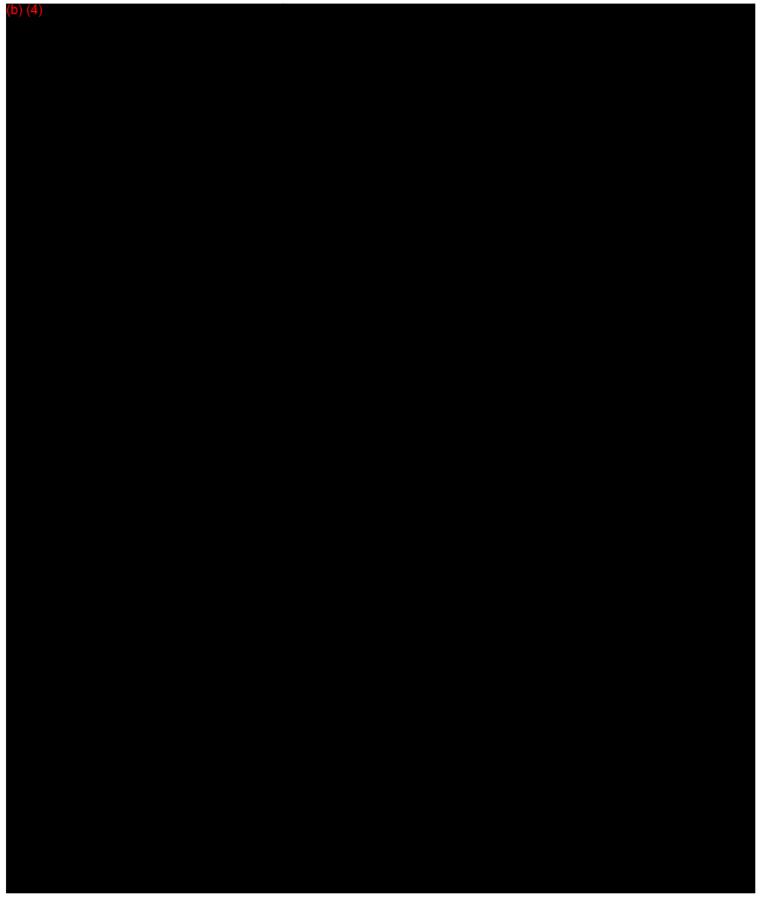
1.	Base Pricing (including freight):
	it brought by CES on bACK BLAIL - NO CHANGE NO PM. It brought in by
	Gutside trans At Custoner expense pay 15 cents) yal
2.	Contamination Limits (maximum limit before surcharges apply):
	If Drums Are Damajed And Are in An Overpack And Operations
	determines too many man hours are used to recover material then there will be no payment
3.	Surcharge Pricing:
4.	Special Testing Requirements:
	Tecord quantity in each down. Number each down and record Amount And product type on inventory List.
5.	Treatment and Handling Protocol:
	Once inventory has been given to product sales. the material will be
	resald AS is as directed by product SAles person to established outlet
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

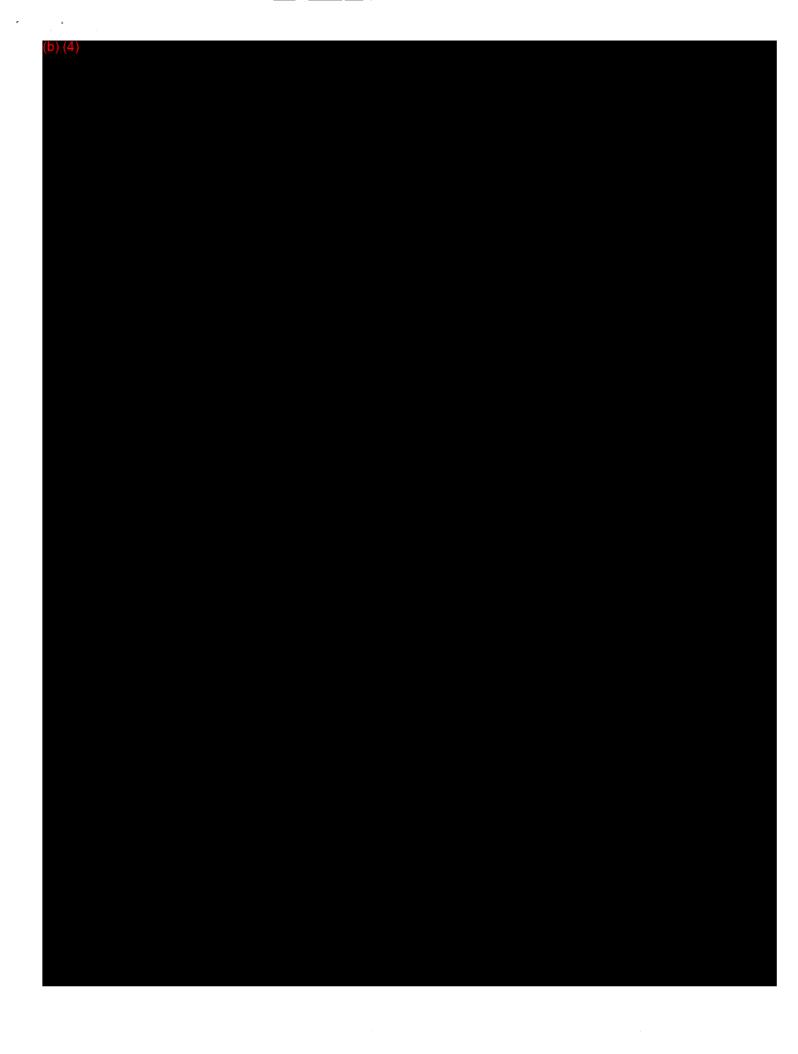


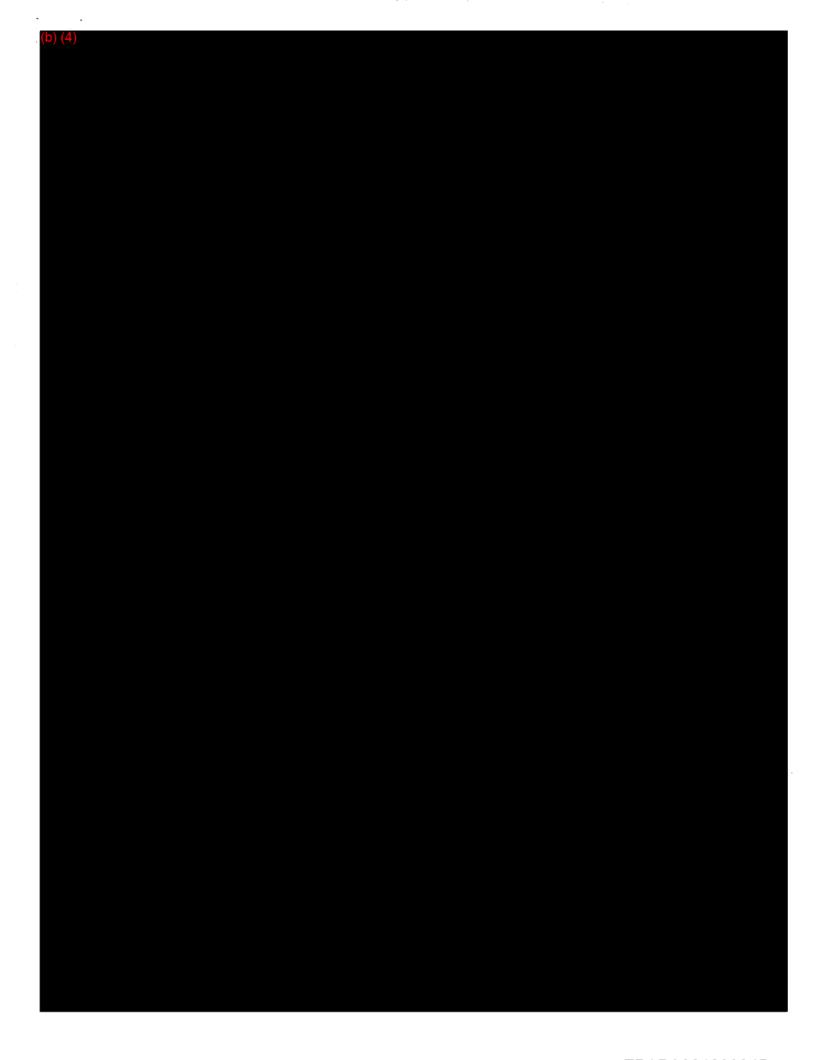
7.	Tests for Product Recovered/Recycled (if applicable):	
i		
8.	Management for Product Recovered/Recycled (if applicable);	
8.	Management for Product Recovered/Recycled (if applicable);	
8.	Management for Product Recovered/Recycled (if applicable);	
8.	Management for Product Recovered/Recycled (if applicable);	
8.	Management for Product Recovered/Recycled (if applicable);	



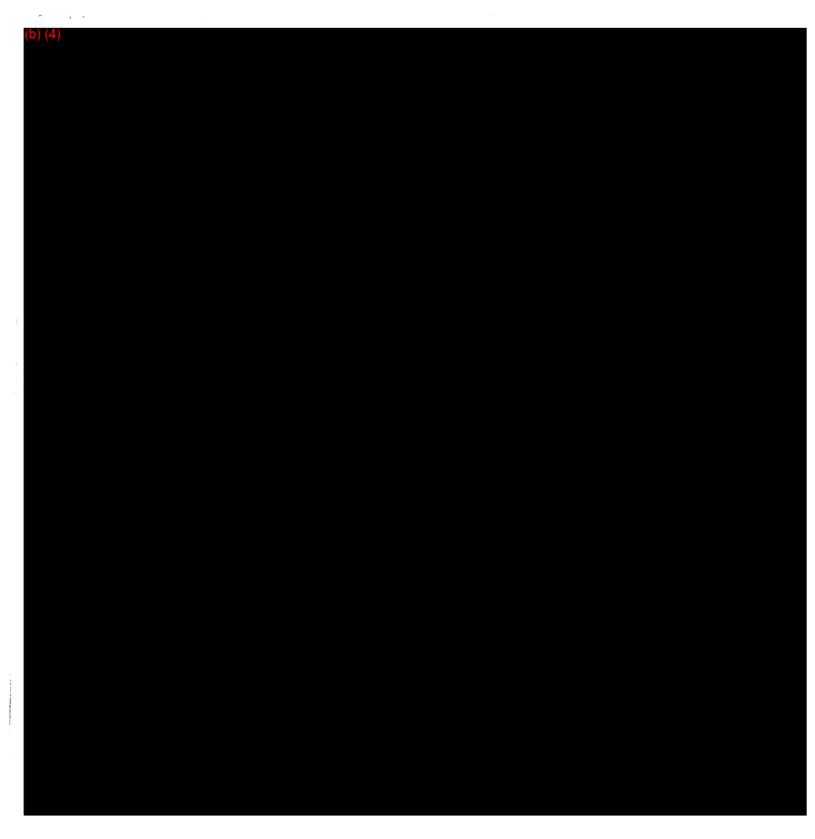
Material Safety Data Sheet





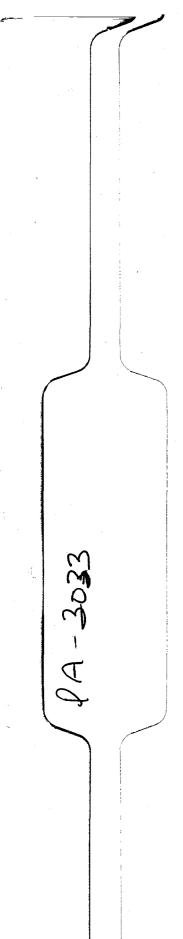


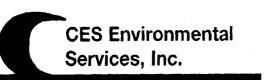




*** END OF MSDS ***

(b) (4)





4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 10/20/2008

Dear Edwin Anderson

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3033

Expiration Date 10/20/2010

Producer: Southwest Shipyard **Address:** 18310 Market Street

Channelview, TX 77530

Material / Product Information

Name of Material / Product Sulfuric acid

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Unused sulfuric acid

Oliuscu sulfulle aci

Color: clear Odor: none

pH: <2

Physical State:

Incompatibilities: reacts violently with water, potassium perchlorate, KMnO4,

sodium, lithium, bases, organic material, halogens, metal acetylides, oxides and hybrides, metals (yields H2 gas), strong

oxidizing agents and many other reactive substances.

Safety Related Data/Special Handling:

wear impervious protective cloting, including boots, gloves, coveralls and chemical safet glasses

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



GB/AL

CES Environmental Services – Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone: (713) 676-1460 Fax: (713) 676-1676 TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900				CES Environmental Services – Port Arthur Facilit 2420 S. Gulfway Drive, Port Arthur, TX 77641 Phone: (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID No: TXR000079307 ISWR No: 88585				41 676-1676
SECTION 1: Mate	rial Producer Infor	mation						
Company:	Southwest Shipya							
Address:								
City, State, Zip:	Channelview, TX							
Contact:				,	Title:			
Phone No:]	Fax No:	(281) 860)-3215	
24/hr Phone:								
U.S. EPA I.D. No:	TXD000820274							
State I.D.	32108			;	SIC Code:			
SECTION 2: Billin	g Information – 🗍	Same as Ab	<u>ove</u>					
Company:	Southwest Shipyard							
Address:	P.O. Box 24309							
City, State, Zip:	Houston, TX 77229	4309						
Contact:	Edwin Anderson		Title:					
Phone No:	(281) 860-3200		Fax No	: _((281) 860-32	15		
Name of Material / Product: Sulfuric Acid Detailed Description of Process Generating or Producing the Material / Product: Unused sulfuric acid Physical State: Solid Solid Powder Combination								
Color: Clear		Odor: none						
Specific Gravity (water=1): 1.4 Density: 9 lbs/gal								
Does this material c	ontain any total phe	nolic compo	ounds? 🗌 Y	es	⊠ No			
Does this material c	ontain any para sub	stituted pho	nolic compo	unds?	Yes [⊠ No		
Layers:	Single-phase		Multi-phase	;				
Container Type: Container Size:	Drum	☐ Tot	e 	\boxtimes	Truck		Other (explain)	
Frequency: Number of Units (co	Weekly ontainers): 4		nthly er:	\boxtimes	Quarterly		Yearly	
Proper U.S. DOT Shipping Name: Sulfuric acid (with not more than 51% acid)								
Class: 8	UN/N	A: UN2	796		PG: II		RQ : 200	Hiters 1000
								- 1000

Flash Point	pН	N/A	N/A	Solids
<u>>200</u>	<u><2</u>			0%
Oil&Grease	TOC	Zinc	Copper	Nickel
<u>0</u> mg/l	<u>O</u> mg/l	<u>O</u> mg/l	<u>0</u> mg/l	<u>O</u> mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units	
The material / product consists of the following materials	Ranges are acceptable	or %	
Sulfuric acid	30	%	
Water	70	%	

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain. Wear impervious protective clothing, including boots, gloves, coveralls, Use chemical safety glasses.

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.

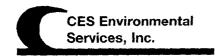
SECTION 7: Incompatibilities

Approval Number:

Please list all incompatibilities (if any):

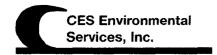
Reacts violently woth water, potassium percholrate, potassium permanagate, sodium, lithium, bases, organic material, halogens, metal acetylides, oxides and hydrides, metals (yields hydrogen gas), strong oxidizing agents and many other reactive substances.

acetylides, oxides and hydrides, metals (yields hydrogen gas), stron	g oxidizing agents and many other reactive substances.
SECTION 8: Material Producer's Certification The information contained herein is based on generator knowled attached description is complete and accurate to the best of my omissions of composition properties exist and that all known or stested are representative of all materials described by this document	uspected hazards have been disclosed. I certify that the material
Authorized Signature: EO Chelman	Date: 10/20/2008
Printed Name/Title: Ed Anderson	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager: Lobhile Thy A. Date: 10-20-2008 Approved Rejected	
Date: 10-20-2008 Approved Rejected	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	no charge
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
4.	Special Testing Requirements:
5.	Treatment and Handling Protocol:
	Offload into totes
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable):
1	
1	

Green Hunters Biofletas



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 10/22/2008

Dear **Steve Sams**

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3035

Expiration Date 10/22/2010

Producer: Green Hunter Biofuels 13605 Industrial Blvd Address:

Houston, TX 77015

Material / Product Information

Name of Material / Product 25% Caustic soda liquid (Product)

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

pH: 14

Odor: none

Tank containing 25% caustic soda liquid is damaged and leaking

Color: colorless

Physical State:

Incompatibilities: acids, oxidizers Safety Related Data/Special Handling:

ppe for caustic

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. CES PORTAL

CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener						
Company:	GREEN HUNTER		NC.			
Address:	13605 INDUSTRI					·····
City, State, Zip: Contact:	HOUSTON, TEX	A9		Title:	ATTTL	BROKER FOR GEN.
Phone No:	713-530-4550			Fax No:	~	24-7748
24/hr Phone:	281-838-3400			rax Nu.	201-42	24-7746
U.S. EPA I.D. No:	TXCESQG			-		
State I.D.	CESQG			SIC Code:	N/A	
State III.				. Sie coue.		
SECTION 2: Billing						
	PHOENIX POLLUT		L & ENVIRO	NMENTAL S	ERVICE	s, INC.
	720 S. LYNCHBUR					
	BAYTOWN, TEXA	S 77520	·	<u>-</u>		
	STEVE SAMS		Title:	AUTH, BRO		R GEN.
Phone No:	281-838-3400		Fax No:	281-424-774	8	
Name of Waste: 25 ° Detailed Description AND LEAKING.	% CAUSTIC SODA	LIQUID (PRO		AINING 25% C	CAUSTIC	SODA LIQUID IS DAMAGED
Physical State:	□ Liquid□ Solid	☐ Skudge ☐ Filter C	ake [Powder Combinatio	n	
Color: <u>COLORI</u> Specific Gravity (was		Odor: <u>NONE</u> Q Density: <u>N</u>	10 A lbs/gal			
Layers:	Single-phase	-	ilti-phase			
Container Type:	☐ Drum	☐ Tote	Ø	Truck		Other (explain)
* "	ENC \$1535	□ 300€				Charles (Carlingain)
Container Size:				130 BBL		ATT 10 10 10 10 10 10 10
Frequency: Number of Units (cor Texas State Waste Co			Oth	Quarterly er:		Vecaly
Proper U.S. DOT Shi	ipping Name:			DE, SOLUTIO	N	
Class: 8	UN/N	A: 1824		PG: II		RQ: 1060
Flash Point	рН	Reactive Salf	des	Reactive C	yanides	Solids
N/A Oil&Grease	14 TOC	N/Amg/I	· · · · · · · · · · · · · · · · · · ·	N/Amg/I		Nietre!
mg/l	TOC mg/l	Zine <u>N/A</u> mg/l		Copper <u>N/A</u> mg/I		Niekel <mark>N/A</mark> mg/I

SECTION 4: Physical and Chemical Data

Concentration Ranges are acceptable	Units
100	%
	 -
	Ranges are acceptable

				<u> </u>
SECTION 5: Safety Re	elated Data			
If the handling of this w	vaste requires the use of s	special protective equipment	, please explain.	
SECTION 6: Attached	Supporting Documents			
List all documents, note MSDS No	s, dete, end/or analysis a	ettached to this form as part	of the waste approval packa	gg.
SECTION 7: Incompat	<u>libilities</u>			
Picase list all incompati	bilities (if eny):			
SECTION 8: Generato	r's Knowledge Documen	<u>tation</u>		
Laboratory analysis of generator knowledge:	the hazardous waste char	racteristics, listed below, WA	AS NOT PERFORMED base	d upon the following
TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles: Reactivity: Corrosivity: Ignitability:	X X X X X X X			
SECTION 9: Generator	r's Certification			
The information containe attached description is comissions of composition	ed herein is based on 🛛 g	the best of my knowledge as all known or suspected haza	analytical data. I hereby centered ability to determine that number of the second and an ards have been disclosed. I centered as a second and ards have been disclosed.	o deliberate or willful
Authorized Signature:			Date: 10-21-08	
Printed Name/Title:	Steve Samis	Aune Broker	-	
CES USE ONLY (DO NOT W	(RITE IN THIS SPACE)			
Compliance Officer:	bluthya	Additional I	nformation:	
Date: 10-22-08	Approved	Rejected		
Approval Number:	3035			

<u>SF</u>	CCTION 10: Waste Receipt Classification Under 40 CFR 437
Is	this material a wastewater or wastewater sludge? YES NO
If	'Yes', complete this section.
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Meta	als Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils .	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or enovies formulation
	Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

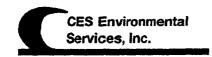
(I)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.	•
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in of the values listed below, the waste should be classified in the metals subcategory.	exces
	Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L	
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copnickel above any of the values listed above, the waste should be classified in the organics subcategory.	per, o
	Metals Subcategory	

SECTION 11: Additional Instructions

Oils Subcategory

Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1	. Base Pricing (including freight):
	trans only (if we do trans) \$70/hr+fse
2.	
	Must be clean product (>22% NaOH)
3.	Surcharge Pricing:
4.	Special Testing Requirements:
	off, concendration, color, clarity (See Section 7)
5.	Treatment and Handling Protocol:
	See product section (8)
į	
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

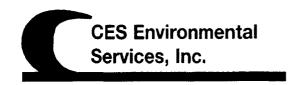
7. Tests for Product Recovered/Recycled (if applicable):

pH, concentration, color, clarity, s.g.

8. Management for Product Recovered/Recycled (if applicable);

Sand to CES Port Arthur facility for NaSH production

3065 HTI Invironmental



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 11/17/2008

Dear Troy Swearingen

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3065

Expiration Date 11/17/2010

Producer: MTI Environmental **Address:** 2150 Pansy Rd

Pasadena, TX 77503

Material / Product Information

Name of Material / Product sulfuric acid

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

unused s8ulfuric acid

Color: brown

Odor: acidic

pH: 1

Physical State:

Incompatibilities: refer to msds

Safety Related Data/Special Handling:

std + chemical suit and gloves

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. Shp

Container Size:

Number of Units (containers): 1

Frequency:

55-gal

Weekly

3063



J B/AL

☐ CES Environmental Services - Houston Facility ○ CES Environmental Services – Port Arthur Facility 4904 Griggs Road, Houston, TX 77021 2420 S. Gulfway Drive, Port Arthur, TX 77641 Phone: (713) 676-1460 Fax: (713) 676-1676 Fax: (713) 676-1676 Phone: (713) 676-1460 TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXR000079307 ISWR No: 88585 U.S. EPA ID No: TXD008950461 ISWR No: 30900 SECTION 1: Material Producer Information Company: MTI Environmental Address: 2150 Pansy Road Pasadena, TX 77503 City, State, Zip: Contact: Trey Cherry Title: Phone No: (713) 947-1510 Fax No: (713) 947-1529 24/hr Phone: (713)201-3197 U.S. EPA I.D. No: TXCESQG State I.D. CESQG SIC Code: 11:1 SECTION 2: Billing Information - ⊠ Same as Above Company: Address: City, State, Zip: Contact: Title: Phone No: Fax No: SECTION 3: General Description of the Material / Product Name of Material / Product: Sulfuric Acid Detailed Description of Process Generating or Producing the Material / Product: Unused Sulfaric acid Physical State: □ Liquid ☐ Sludge Powder Solid Solid ☐ Filter Cake ☐ Combination Color: brown Odor: acidic Specific Gravity (water=1): 1.84 Density: 12 lbs/gal Does this material contain any total phenolic compounds?
Yes No Does this material contain any para substituted phenolic compounds?

Yes

No Layers: Single-phase ■ Multi-phase **Container Type:** Drum ☐ Tote Truck Other (explain)

Proper U.S. DOT Shipping Name: Sulfuric Acid (with more than 51% acid)

Class: 8 UN/NA: UN1830 PG: II RQ: 14046 (Acid (with more than 51% acid))

Monthly

Other: _

X

Yearly

Quarterly

Flash Point	pH	N/A	N/A	Solids
<u>>140</u>	11		i	0%
Oil&Grease	TOC	Zinc	Соррег	Nickel
<u>O</u> mg/l	Qmg/I	<u>O</u> mg/I	Qmg/l	Qmg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Sulfuric acid	90-100	172
water	0-10	%

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain. Standard plus chemical suite and gloves

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

Reacts violently woth water, potassium percholmte, potassium permanagate, sodium, lithium, bases, organic material, halogens, metal acetylides, oxides and hydrides, metals (yields hydrogen gas), strong oxidizing agents and many other reactive substances.

SECTION 8: Material Producer's Certification

Ton M

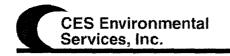
The information contained herein is based on \square generator knowledge and/or \boxtimes analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Printed Name/Title:Trey Cherry / VP	Date: 11-03-2008
THEO SHIP THE	Communicacy of the control of the co
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager: Poly Cur Theyed	
Date: 117-08 Approved Rejected	
Approval Number: 3065	



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Prici	cing (including freight):	
	n Trans \$75/hour + FSC	
<u>.</u>		·
2. Contamina	nation Limit (maximum limit before surchages apply):	
		
3. Surcharge	ge Pricing:	
4. Special Tes	esting Requirements:	
Oens:	resting Requirements:	
5 Treatment	nt and Handling Protocol	
Use as	nt and Handling Protocol: as product in processing	
	g y start of the s	
6. Treated W	Wastewater Discharge Subcategory:	
□ Si	Subcategory A Subcategory B Subcategory C	



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):	
8. Management for Product Recovered/Recycled (if applicable)	
Use as sulfuric acid feedstock for NaSH Production	

MSDS Number: \$8234 * * * * * Effective Date: 11/09/07 * * * * * Supercedes: 02/04/05

MSDS

Material Safety Data Sheet

From: Mallinckrodt Baker, Inc. 222 Red School Lane Phillipsburg, NJ 08865





24 Hour Emergency Telephone: 908-859-2151 CHEMTREC: 1-800-424-9300

National Response in Canada

Outside U.S. and Canada Chemtres: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only as the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-592-2537) for assistance.

SULFURIC ACID, 52 - 100 %

1. Product Identification

Synonyms: Oil of vitriol; Babcock acid; sulphuric acid

CAS No.: 7664-93-9 **Molecular Weight:** 98.08

Chemical Formula: H2SO4 in H2O

Product Codes:

J.T. Baker: 5030, 5137, 5374, 5802, 5815, 5858, 5859, 5868, 5889, 5897, 5961, 5971, 5997, 6163, 6902, 9671, 9673, 9674, 9675, 9676, 9679, 9680, 9681, 9682, 9684, 9687, 9691,

9693, 9694

Mallinckrodt: 21201, 2468, 2876, 2878, 2900, 2904, 3780, 4222, 5524, 5557, H644, H850,

H976, H996, V651, XL003

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Sulfuric Acid	7664-93-9	52 - 100%	Yes
Water	7732-18-5	0 - 48%	No

3. Hazards Identification

Emergency Overview

POISON! DANGER! CORROSIVE. LIQUID AND MIST CAUSE SEVERE BURNS TO ALL BODY TISSUE. MAY BE FATAL IF SWALLOWED OR CONTACTED WITH SKIN. HARMFUL IF INHALED. AFFECTS TEETH. WATER REACTIVE. CANCER HAZARD. STRONG INORGANIC ACID MISTS CONTAINING SULFURIC ACID CAN CAUSE CANCER. Risk of cancer depends on duration and level of exposure.

SAF-T-DATA (tm) Ratings (Provided here for your convenience)

Health Rating: 4 - Extreme (Poison)

Flammability Rating: 0 - None Reactivity Rating: 2 - Moderate

Contact Rating: 4 - Extreme (Corrosive)

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD;

PROPER GLOVES

Storage Color Code: White (Corrosive)

Potential Health Effects

Inhalation:

Inhalation produces damaging effects on the mucous membranes and upper respiratory tract. Symptoms may include irritation of the nose and throat, and labored breathing. May cause lung edema, a medical emergency.

Ingestion:

Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach, leading to death. Can cause sore throat, vomiting, diarrhea. Circulatory collapse with clammy skin, weak and rapid pulse, shallow respirations, and scanty urine may follow ingestion or skin contact. Circulatory shock is often the immediate cause of death.

Skin Contact:

Corrosive. Symptoms of redness, pain, and severe burn can occur. Circulatory collapse with clammy skin, weak and rapid pulse, shallow respirations, and scanty urine may follow skin contact or ingestion. Circulatory shock is often the immediate cause of death.

Eye Contact:

Corrosive. Contact can cause blurred vision, redness, pain and severe tissue burns. Can cause blindness.

Chronic Exposure:

Long-term exposure to mist or vapors may cause damage to teeth. Chronic exposure to mists containing sulfuric acid is a cancer hazard.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.

Ingestion:

DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Excess acid on skin can be neutralized with a 2% solution of bicarbonate of soda. Call a physician immediately.

Eye Contact:

Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately.

5. Fire Fighting Measures

Fire:

Concentrated material is a strong dehydrating agent. Reacts with organic materials and may cause ignition of finely divided materials on contact.

Explosion:

Contact with most metals causes formation of flammable and explosive hydrogen gas.

Fire Extinguishing Media:

Dry chemical, foam or carbon dioxide. Do not use water on material. However, water spray may be used to keep fire exposed containers cool.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Structural firefighter's protective clothing is ineffective for fires involving this material. Stay away from sealed containers.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Neutralize with alkaline material (soda ash, lime), then absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

J. T. Baker NEUTRASORB® acid neutralizers are recommended for spills of this product.

7. Handling and Storage

Store in a cool, dry, ventilated storage area with acid resistant floors and good drainage. Protect from physical damage. Keep out of direct sunlight and away from heat, water, and incompatible materials. Do not wash out container and use it for other purposes. When diluting, always add the acid to water; never add water to the acid. When opening metal containers, use non-sparking tools because of the possibility of hydrogen gas being present. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

For Sulfuric Acid:

- OSHA Permissible Exposure Limit (PEL) -
- 1 mg/m3 (TWA)
- ACGIH Threshold Limit Value (TLV) -

0.2 mg/m3(T) (TWA) for sulfuric acid - A2 Suspected Human Carcinogen for sulfuric acid contained in strong inorganic mists.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a full facepiece respirator with an acid gas cartridge and particulate filter (NIOSH type N100 filter) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P particulate filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres. Where respirators are required, you must have a written program covering the basic requirements in the OSHA respirator standard. These include training, fit testing, medical approval, cleaning, maintenance, cartridge change schedules, etc. See 29CFR1910.134 for details.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Clear oily liquid.

Odor:

Odorless.

Solubility:

Miscible with water, liberates much heat.

Specific Gravity:

1.84 (98%), 1.40 (50%), 1.07 (10%)

pH:

1 N solution (ca. 5% w/w) = 0.3; 0.1 N solution (ca. 0.5% w/w) = 1.2; 0.01 N solution (ca. 0.05% w/w) = 2.1.

% Volatiles by volume @ 21C (70F):

No information found.

Boiling Point:

ca. 290C (ca. 554F) (decomposes at 340C)

Melting Point:

3C (100%), -32C (93%), -38C (78%), -64C (65%).

Vapor Density (Air=1):

3.4

Vapor Pressure (mm Hg):

1 @ 145.8C (295F)

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage. Concentrated solutions react violently with water, spattering and liberating heat.

Hazardous Decomposition Products:

Toxic fumes of oxides of sulfur when heated to decomposition. Will react with water or steam to produce toxic and corrosive fumes. Reacts with carbonates to generate carbon dioxide gas, and with cyanides and sulfides to form poisonous hydrogen cyanide and hydrogen sulfide respectively.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Water, potassium chlorate, potassium perchlorate, potassium permanganate, sodium, lithium, bases, organic material, halogens, metal acetylides, oxides and hydrides, metals (yields hydrogen gas), strong oxidizing and reducing agents and many other reactive substances.

Conditions to Avoid:

Heat, moisture, incompatibles.

11. Toxicological Information

Toxicological Data:

Oral rat LD50: 2140 mg/kg; inhalation rat LC50: 510 mg/m3/2H; standard Draize, eye rabbit, 250 ug (severe); investigated as a tumorigen, mutagen, reproductive effector.

Carcinogenicity:

Cancer Status: The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mists containing sulfuric acid" as a known human carcinogen, (IARC category 1). This classification applies only to mists containing sulfuric acid and not to sulfuric acid or sulfuric acid solutions.

\Cancer Lists\					
	NTP Carcinogen				
Ingredient	Known	Anticipated	IARC Category		
Sulfuric Acid (7664-93-9)	No	No	None		
Water (7732-18-5)	No	No	None		

12. Ecological Information

Environmental Fate:

When released into the soil, this material may leach into groundwater. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition. When released into the air, this material may be removed from the atmosphere to a moderate extent by dry deposition.

Environmental Toxicity:

LC50 Flounder 100 to 330 mg/l/48 hr aerated water/Conditions of bioassay not specified; LC50 Shrimp 80 to 90 mg/l/48 hr aerated water /Conditions of bioassay not specified; LC50 Prawn 42.5 ppm/48 hr salt water /Conditions of bioassay not specified. This material may be toxic to aquatic life.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: SULFURIC ACID (WITH MORE THAN 51% ACID)

Hazard Class: 8 UN/NA: UN1830 Packing Group: II

Information reported for product/size: 440LB

International (Water, I.M.O.)

Proper Shipping Name: SULFURIC ACID (WITH MORE THAN 51% ACID)

Hazard Class: 8 UN/NA: UN1830 Packing Group: II

Information reported for product/size: 440LB

15. Regulatory Information

\Chemical Inventory Status - Part Ingredient		TSCA	EC	Japan	Australia
Sulfuric Acid (7664-93-9) Water (7732-18-5)		Yes	Yes	Yes	
Chemical Inventory Status - Part	2\			 anada	
Ingredient		Kore	a DSL		Phil.
Sulfuric Acid (7664-93-9) Water (7732-18-5)		Yes	Yes	No No	Yes
\Federal, State & International ReIngredient	-SARA	302-		SAR	 A 313 mical Catg.
Sulfuric Acid (7664-93-9) Water (7732-18-5)		1000	 Yes	 -	No
\Federal, State & International Re	gulati	ons -		2\ T	
Ingredient	CERCL	А		3 8	
Sulfuric Acid (7664-93-9) Water (7732-18-5)	1000		No	N N	0
hemical Weapons Convention: No TSCA 12 ARA 311/312: Acute: Yes Chronic: Yes eactivity: Yes (Pure / Liquid)					

Australian Hazchem Code: 2P Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 2 Other: Water reactive

Label Hazard Warning:

POISON! DANGER! CORROSIVE. LIQUID AND MIST CAUSE SEVERE BURNS TO ALL BODY TISSUE. MAY BE FATAL IF SWALLOWED OR CONTACTED WITH SKIN. HARMFUL IF INHALED. AFFECTS TEETH. WATER REACTIVE. CANCER HAZARD. STRONG INORGANIC ACID MISTS CONTAINING SULFURIC ACID CAN CAUSE CANCER. Risk of cancer depends on duration and level of exposure.

Label Precautions:

Do not get in eyes, on skin, or on clothing.

Do not breathe mist.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Do not contact with water.

Label First Aid:

In all cases call a physician immediately. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use. Excess acid on skin can be neutralized with a 2% bicarbonate of soda solution. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Product Use:

Laboratory Reagent.

Revision Information:

No Changes.

Disclaimer:

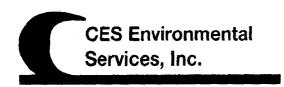
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Prepared by: Environmental Health & Safety

FROM USE OF OR RELIANCE UPON THIS INFORMATION.

Phone Number: (314) 654-1600 (U.S.A.)

PA-3062



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 1/29/2009

Dear Bill Bartlett

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3062

Expiration Date 11/14/2010

Producer: Gulf Coast Dismantling (Buckeye Pipeline Ammonia Plant)

Address: 1811 FM 523

Freeport, TX 77541

Material / Product Information

Name of Material / Product Ammonia with water

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Ammonia removed from pipes being dismantled @ an ammonia processing plant

Color: yellow

Odor: very strong

pH: 10-12

Physical State:

Incompatibilities: mercury, chlorine, calcium hypochlorite, hydrofluoric acid

(anhydrous), bromine pentaflouride, chlorine trifluoride,

chloroformates, strong acids, strong oxidizing agents, brass, zinc, aluminum, copper, bronze, most common metals and dimethyl

sulfate. Cor

Safety Related Data/Special Handling:

respirator, PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



CES Environmental Services - Houston Facility



CES Environmental Services, Inc.

CES Environmental Services - Port Arthur Facility

		-	ouston, TX 7			2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460							
Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900					0	1		ımber: TXR		,	ISWR Numb		3585
l -			Permit Nun		-		•			-			
<u> </u>						<u> </u>		***************************************				-	
SECTION 1:	Generator	Informati	<u>on</u>										
Company:			ng (Buckeye	Pipeline)									
Address:	1811 1	-m5	23						`				
City:	Free	DET		Sta	te:	TX	;	Zip:	175	41_			
Contact:	Bill Bartlet	t				Title:	1	David Swa	rb				
Phone Num	ber:	713-20	3-5848			Fax Numbe	er: _						
24/hr Phone	e Number:					-							
US EPA ID N	0:	TXCESO	G										
State ID No:	:	CESQG				SIC Code:	_						
SECTION 2:	Billing Info	rmation -	☐ <u>S</u> a	me as Abo	<u>ve</u>								
Company:	Gulf Coast	Dismantli	ng										
Address:	P.O. Box 5	249		· · ·									
City:	Pasadena			Sta	ite:	TX	;	Zip:				7	77508
Contact:	Darlene H	offpauir				Title:	4	Accounts	Payable	<u> </u>	·		
Phone Num	ber:	281-48	7-0595			Fax Numbe	er: _						
SECTION 3:	General De	scription	of the Wast	<u>e</u>									
Name of Wa			ia with wat										
Detailed Des	scription of	Process G	ienerating \	Naste:									
Ammonia re	moved from	n pipes be	ing dismant	iled. The pi	ant was	an ammonia	a pro	ocessing p	lant.				
Mariant Char	🖂			[] Ch.	ماسم	_	٠,	Damalan					
Physical Stat	te: 넘	Liquid			dge	<u>_</u>	=	Powder	• •				
	Ll	Solid		FIRE	er Cake	<u> </u>	۰ '	Combinat	1011				
Color:	yellow					Odor:	١	VERY STRO	NG.				
COIOI.	yenow					Oddi.	-	VERT STRE	2110				
Specific Grav	rity (water	=1 1.			1			Density:		8.34 lb	ns/gal		
opeonie dia	ricy (water	;.				-		DC//Sity?		0.54 12	,5, gui		
Does this ma	aterial conf	ain any to	tal phenoli	c compoun	ds?	П У	es/		No				
5005 1115 111		,	tur privation			·		1,1					
Does this ma	aterial cont	ain any pa	ara substitu	ted phenol	lic comp	ounds?			Yes	√ N	0		
		, р						L-1		٠٠ لـــا			
Is the Waste	subject to	the benze	ne waste o	peration N	ESHAP?	(40 CFR Par	rt 61	L. Subpart	FF)	ļ	Yes	V	No
Answer "Yes	-									followir		لـــــا	
2812	281		2816	2819	2821		322	2823		2824	2833		2834
2835	283		2841	2842	2843		344	2851		2861	2865		2869
2873	287		2876	2879	2891		392	2893		2896	2899		2911
3312	495		4959	9511		20			-		2000		
5522	.52	-											
Layers:	☑ Sii	ngle-phase		Multi-ph	ase								
.,		J : p											
Container Ty	/pe:	Drum	☑ Tote	☐ Tru	ıck 🔲	Other (expl	lain))			•		
•	-					, ,	•	•					
Frequency:	☐ Weekl	у 🗌 Мо	nthly 🖂 '	Yearly 🔽	One-Ti	ime							
Quantity:			. –	2	_ •								

		us Waste" pe plete, sign and			Ye.				
	ic for Toxic N		☐ D004	D005	D000] D003 (Rea 5 D007	<u></u>	□ D009	
Characterist	ic for Toxic O	rganics: D012	thru D043 (please list al	i that apply)				
		d waste or mi t ALL applical		a?	☐ Ye	s _v] No		
40 CFR 261.3	33(e) or (f)?	uct or spill clo	,		n "U" or "P" w No	aste code ui	nder		
Texas State	Waste Code i	Number:		Recyclable			-		
Proper US De	OT Shipping	Name:	Ammonia s	olution, rela	tive density le	ss than 0.88	0 at 15 degre	es C in wat	er, with mor
Class:	2.3	UN/NA:	UN3318	PG:	11	RQ:	100		
Flash	Point	р	Н	Reacti	ve Sulfides	Reactive	Cyanides	So	lids
<1	40	10	-12	0	mg/l	0	mg/l	0	%
Oil & Grease		T(OC		Zinc	Co	pper	Nic	kel
0	<u>mg/l</u>	0	mg/l	0	<u>mg/l</u>	0	mg/l	0	<u>mg/l</u>
SECTION 4: Physical and Chemical Data COMPONENTS TABLE CONCENTRATOIN UNITS									

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Ammonia	80-100	%
Water	0-20	%
· ·		
	<u> </u>	
		
	L	

	: Safety Rela							
	-	aste requires the	use of special	protective equ	ipment, please o	explain.		
respirator,	standard ppe	<u>; </u>						
								
SECTION 6	· Attached Si	upporting Docum	nonts					
		s, data and/or an		to this form a	nart of the way	rte.		
approval p	· ·	analytical #081	•	to this form a.	part of the wa.	, c		
appi ovai pi	ackage.	analytical #003	.00130.01	· · · · · · · · · · · · · · · · · · ·	****			
CECTION 7		*!!*A!						
	: Incompatib	incies ibilities (if any):						
Flease list /	ALL INCOMPAN	bilities (it ally).						
								
	···							
SECTION 8:	Generator's	Knowledge Doc	umentation					
Laboratory	analysis of th	e hazardous was	ste characterist	ics, listed belov	w, WAS NOT PE	RFORMED		
based upor	the following	g generator knov	wledge:					
TCLP Metal		X						
TCLP Volati				 				
TCLP Semi-	Volatiles:							
Reactivity:								
Corrosivity:					****			
Ignitability:		lab could not						
	Waste Receipt	Classification Un	<u>der 40 CFR 437 (</u>	Prtaining to Pre	-Treatment Requ	<u>iirements fo</u>	r Centralized Waste Treatm	<u>ent</u>
Facilities)	la thia matari	ial a wastawatan s	***********	udaa)		□ vec	El No	
		ial a wastewater of complete this sect		auger		YES	✓ NO	
	,							
	PLEASE CHEC	CK THE APPROPRIA	ATE BOX. IF NO	APPROPRIATE C	ATEGORY, GO TO	THE NEXT	PAGE.	
Matala Cuba	ategory: Subj	nout A						
IVIELUIS SUDC		oplating baths and	for studges					
		ng rinse water and						
	Chromate wa	-	. 5.1.1.5.5.1					
	Air pollution	control blow dow	n water and sluc	lges				
	Spent anodiz	ing solutions						
	Incineration v							
<u>_</u>	Waste liquid	,		4-				
<u> </u>		aining wastes gre		g/i				
<u> </u>	-	and bases with or						
-		sing, and surface p		tions from elect	roplating or phos	phating ope	rations	
 -		burring wastewate acid solutions use		narts or equinn	nent			
L.,	, Alkamic and	acia solations asc	a to cican metai	parts of equipm	ient			
Oils Subcate	<u>gory</u> : Subpart	: B						
L	Used oils							
<u> </u>	•	ulsions or mixture	es .					
<u> </u>	Lubricants							
<u> </u>	Coolants	d groundwater cle	an un fram acti	aloum courses				
<u> </u>	Used petrole		an-up nom peti	oreum sources				
-	Oil spill clean	•						
<u> </u>	Bilge water							
		vaters from petrol	eum sources					

	Interceptor wastes
	Off-specification fuels
	Underground storage remediation waste
 _	Tank clean-out from petroleum or oily sources
<u> </u>	Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations
<u> </u>	Mastewater from oil bearing paint washes
1	1 sanctiones nonion process batte garrier
Organics Su	boategory: Subpart C
] Landfill leachate
<u></u>	Contaminated groundwater clean-up from non-petroleum sources
}=	Solvent-bearing wastes Off-specification organic product
 =	Still bottoms
ļ=	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesives and/or epoxies formulation
	Wastewater from organic chemical product operations
	Tank clean-out from organic, non-petroleum sources
191	
(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
	The state of the s
(2)	
	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
	excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/L
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/L
(3)	
	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper,
	or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
	Metals Subcategory
	Olis Subcategory
	Organics Subcategory
	A 5 May . A 4
SECTION 10	Additional instructions
If you cannot	t determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium,
	el, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This
	to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11	: Generator's Certification
The informa	ation contained herein is based on 💢 generator knowledge and/or 🔲 analytical data.
I hereby cer	rtify that the above and attached description is complete and accurate to the best of
my knowled	ige and ability to determine that no deliberate or willful omissions of compostion
-	exist and that all known or suspected hazards baye been disclosed. I certify that the
	sted are representative of all prateries described by this document.
******************	MIL WILLIAM
Authorized	Signature: Date: 11/5/08
Printed Na	me/Title: Bin 134200 /2313000
CES USE ON	ILY (DO NOT WRITE IN THIS SPACE)
	mar garan erane serini 199 1 tita mit elimat
Compliance	Officer:
Date:	Approved Rejected
Approval N	
Lhhinsei ja	HITTORY .
L	



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
Disposal: \$1,000/tote Freight: \$700.00/load
2. Contamination Limit (maximum limit before surchages apply):
None
3. Surcharge Pricing:
None
4. Special Testing Requirements:
5. Treatment and Handling Protocol:
Put in tank for Targa LSNG with Ammonia caustic. Add / tote for every 8-10 tank truck
Put in tank for Targa LSNG with Ammonia caustic. Add 1 tote for every 8-10 tank truck loads. Handle carefully - wear appropriate PPE.
<i>V</i>
C. Taraka (W. akanaka Birakana Cakasa ang
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):					
NA					
8. Management for Product R	ecovered/Recycled (if applicable)				
NA			· · · · · · · · · · · · · · · · · · ·		

Job ID: 08100136



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name:

0808-36 Gulf Coast Dismantling

Report To:

Client Name:

Client Address:

CES Environmental

Dana Carter

4904 Griggs Rd

City, State, Zip: Houston, Texas, 77021

P.O.# .: 0808-36

Sample Collected By:

Date Collected: 10/03/08

A&B Labs has analyzed the following samples...

Client Sample ID

Matrix

A&B Sample ID

Ammonia Water

Liquid

08100136.01

Sonia West

Released By: Sonia West

Title:

Senior Project Manager

Date:

10/15/2008



This Laboratory is NELAP (T104704213-08-TX) accredited. Effective: 07/01/2008; Expires: 06/03/2009 Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided

Date Received: 10/06/2008 15:31

Laboratory Report: Case Narrative



A&B Job ID: 08100136

Date: 10/15/08

Attn: Dana Carter

Client Name:

CES Environmental

Project Name: 0808-36 Gulf Coast Dismantling

Date Received: 10/06/08

Collected By:

Due to the matrix of the sample (Ammonia Water) the laboratory could not analyze your sample for Ignitability.

Please feel free to contact us with any questions regarding your report.

A&B Labs is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Released By: Sonia West

Title: Senior Project Manager

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID: 08100136

Date: 10/15/2008

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight				
BRL	Below Reporting Limit	ppm	parts per million				
cfu	colony-forming units	Pre-Wt	Previous Weight				
Conc.	Concentration	Q	Qualifier				
D.F.	Dilution Factor	RegLimit	Regulatory Limit				
Front-Wt	Front Weight	RPD	Relative Percent Difference				
LCS	Laboratory Check Standard	RptLimit	Reporting Limit				
LCSD	Laboratory Check Standard Duplicate	surr	Surrogate				
мѕ	Matrix Spike	T	Time				
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count				
MW	Molecular Weight						
Qualifier Defi	nition						
D1	Sample required dilution due to matrix effects						
M1	Matrix Spike/Matrix Spike Duplicate recovery	is above laboratory cont	trol limits due to matrix interference.				
M2	Matrix Spike/Matrix Spike Duplicate recovery	is below laboratory cont	rol limits due to matrix interference.				
M6	Not calculated. Sample concentration high. S	pike out of linear range.	Control limits do not apply.				
S6	6 Surrogate recovery is outside control limits due to matrix effects.						

LABORATORY TEST RESULTS



Job ID: 08100136

Date 10/15/2008

Client Name: Project Name: **CES Environmental**

0808-36 Gulf Coast Dismantling

Client Sample ID:

Ammonia Water

Date Collected: Time Collected: Other Information:

10/03/08 13:00

Job Sample ID:

08100136.01

Attn: Dana Carter

Sample Matrix Liquid

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analys
SW-846 6010C	TCLP Metals			. N. H					
	Antimony	BRL	mg/L	1	0.04	1		10/07/08 18:22	PGm
	Arsenic	0.215	mg/L	1	0.04	1.8		10/07/08 18:22	PGm
	Barium	BRL	mg/L	1	0.04	100.0		10/07/08 18:22	PGm
	Beryllium	BRL	mg/L	1	0.04	80.0		10/07/08 18:22	PGm
	Cadmium	BRL	mg/L	1	0.04	0.5		10/07/08 18:22	PGm
	Chromium	BRL	mg/L	1	0.04	5.0		10/07/08 18:22	PGm
	Lead	BRL	mg/L	1	0.04	1.5		10/07/08 18:22	PGm
	Nickel	8.88	mg/L	1	0.04	70		10/07/08 18:22	PGm
	Selenium	BRL	mg/L	1	0.1	1.0		10/07/08 18:22	PGm
	Silver	BRL	mg/L	1	0.04	5.0		10/07/08 18:22	PGm
	Vanadium	BRL	mg/L	1	0.04	30		10/07/08 18:22	PGm
SW-846 7.3	Reactive Cyanide								
	Reactive Cyanide	BRL	mg/L	4	100		D1	10/15/08 11:00	KS
SW-846 7.3	Reactive Sulfide								
	Reactive Sulfide	BRL	mg/L	4	100		D1	10/15/08 09:00	KS
W-846 7470A	TCLP Metals, Mercury								
	Mercury	BRL	mg/L	1	0.0005	0.2		10/07/08 15:21	TK
W-846 8260B	Volatile Organic Compounds								
	1,1,1,2-Tetrachloroethane	BRL	mg/L	1	0.005			10/08/08 21:54	HW
	1,1,1-Trichloroethane	BRL	mg/L	1	0.005			10/08/08 21:54	HW
	1,1,2,2-Tetrachloroethane	BRL	mg/L	1	0.005			10/08/08 21:54	HW
	1,1,2-Trichloroethane	BRL	mg/L	1	0.005			10/08/08 21:54	HW
	1,1-Dichloroethane	BRL	mg/L	1	0.005			10/08/08 21:54	HW
	1,1-Dichloroethylene	BRL	mg/L	1	0.005			10/08/08 21:54	HW
	1,1-Dichloropropene	BRL	mg/L	1	0.005			10/08/08 21:54	HW
	1,2,3-trichlorobenzene	BRL	mg/L	1	0.005			10/08/08 21:54	HW
	1,2,3-Trichloropropane	BRL	mg/L	1	0.005			10/08/08 21:54	HW
	1,2,4-Trichlorobenzene	BRL	mg/L	1	0.005			10/08/08 21:54	HW
	1,2,4-Trimethylbenzene	BRL	mg/L	1	0.005			10/08/08 21:54	HW
	1,2-Dibromo-3-chloropropane	BRL	mg/L	1	0.005			10/08/08 21:54	HW
	1,2-Dibromoethane	BRL	mg/L	1	0.005			10/08/08 21:54	HW
	1,2-Dichlorobenzene	BRL	mg/L	1	0.005			10/08/08 21:54	HW
	1,2-Dichloroethane	BRL	mg/L	1	0.005			10/08/08 21:54	HW
	1,2-Dichloropropane	BRL	mg/L	1	0.005			10/08/08 21:54	HW
	1,3,5-Trimethylbenzene	BRL	mg/L	1	0.005			10/08/08 21:54	HW
	1,3-Dichlorobenzene	BRL	mg/L	1	0.005			10/08/08 21:54	HW
	1,3-Dichloropropane	BRL	mg/L	1	0.005			10/08/08 21:54	HW
	1,4-Dichlorobenzene	BRL.	mg/L	1	0.005			10/08/08 21:54	HW

LABORATORY TEST RESULTS

Job ID: 08100136

Date 10/15/2008

Client Name:

CES Environmental

Project Name:

0808-36 Gulf Coast Dismantling

Client Sample ID: Date Collected:

Ammonia Water 10/03/08

13:00

Time Collected:

Job Sample ID:

08100136.01

Attn: Dana Carter

Sample Matrix

Liquid

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit Reg Limit Q	Date Time	Analys
W-846 8260B	Volatile Organic Compounds						
	2,2-Dichloropropane	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	2-Chiorotoluene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	4-Chlorotoluene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	4-Isopropyltoluene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Benzene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Bromobenzene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Bromochloromethane	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Bromodichloromethane	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Bromoform	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Bromomethane	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Carbon tetrachloride	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Chlorobenzene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Chloroethane	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Chloroform	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Chloromethane	BRL	mg/L	1	0.005	10/08/08 21:54	HW
ci	cis-1,2-Dichloroethylene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	cis-1,3-Dichloropropene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Dibromochloromethane	BRL.	mg/L	1	0.005	10/08/08 21:54	HW
	Dibromomethane	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Dichlorodifluoromethane	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Ethylbenzene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Isopropylbenzene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	m- & p-Xylenes	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	MEK	0.373	mg/L	50	0.25	10/08/08 11:35	HW
	Methylene chloride	0.035	mg/L	1	0.005	10/08/08 21:54	HW
	Naphthalene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	n-Butylbenzene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	n-Propylbenzene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	o-Xylene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	sec-Butylbenzene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Styrene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	t-butylbenzene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Tetrachloroethylene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Toluene	0.01	mg/L	1	0.005	10/08/08 21:54	HW
	trans-1,2-Dichloroethylene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	trans-1,3-Dichloropropene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Trichloroethylene	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Trichlorofluoromethane	BRL	mg/L	1	0.005	10/08/08 21:54	HW

LABORATORY TEST RESULTS

Job ID: 08100136

Date 10/15/2008

Client Name:

CES Environmental

Attn: Dana Carter

Project Name:

0808-36 Gulf Coast Dismantling

Client Sample ID:

Ammonia Water

Job Sample ID:

08100136.01

Date Collected: Time Collected:

10/03/08

Sample Matrix

Liquid

Other Information:

13:00

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit Q Date Time	Analyst
SW-846 8260B	Volatile Organic Compounds						
	Vinyl Chloride	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Xylenes	BRL	mg/L	1	0.005	10/08/08 21:54	HW
	Dibromofluoromethane(surr)	86.7	%	50	70-130	10/08/08 21:54	HW
	p-Bromofluorobenzene(surr)	98.3	%	50	70-130	10/08/08 21:54	HW
	Toluene-d8(surr)	100	%	50	70-130	10/08/08 21:54	HW
	1,2-Dichloroethane-d4(surr)	102	%	50	70-130	10/08/08 21:54	HW
5W-846 9040C	Corrosivity, pH						
	рH	12.85	s.u.			10/13/08 16:00	SG



Job ID: 08100136

Date:

10/15/2008

Analysis: TCLP Metals, Mercury

Method:

SW-846 7470A

Reporting Units:

mg/L

QC Batch ID: Qb08100729

Created Date: 10/07/08

Created By : Tkhuc

Samples in This QC Batch: 08100136.01

Prep Method: SW-846 7470A

Prep Date: 10/07/08 12:00 Prep By:

Tkhuc

Digestion: TCLP Prep: PB08100714 PB08100713

Prep Method: SW-846 1311

Prep Date: 10/07/08 08:00 Prep By:

Bstone

QC Type: Method Blank					*)
Parameter	CAS#	Result	Units	D.F.	RptLimit	Q	Qual
Mercury	7439-97-6	BRL	mg/L	1	0.0005		100

QC Type:	LCS and LCSE	•									
		LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter		Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Mercury		0.005	0.0044	88.2	0.005	0.0049	97.8	10.3	35	71-143	

QC Type: MS a	nd MSD											
QC Sample ID:	08100	L30.01										
		Sample	MS	MS	MS	MSD	MSD	MSD		RPD	%Rec	
Parameter		Result	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Mercury		BRL	0.005	0.0050	101	0.005	0.0050	101	0	35	61-175	



Job ID: 08100136

Date:

10/15/2008

Analysis : TCLP Metals

Method:

SW-846 6010C

Reporting Units: mg/L

QC Batch ID : Qb08100732

Created Date: 10/07/08

......

Samples in This QC Batch:

: 08100136.01

Created By: Pguirguis

. . .

Digestion :

....

Prep Method: SW-846 3010A

Prep Date: 10/07/08 14:00 **Prep By:**

Pguirguis

TCLP Prep:

PB08100717 PB08100713

Prep Method: SW-846 1311

Prep Date: 10/07/08 08:00 **Prep By:**

Bstone

QC Type: Method Blank							
Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Antimony	7440-36-0	BRL	mg/L	1	0.1		
Arsenic	7 44 0-38-2	BRL	mg/L	1	0.04		
Barium	7440-39-3	BRL	mg/L	1	0.04	[편 임상 등장이 기능적 중에다	
Beryllium	7440-41-7	BRL	mg/L	1	0.04		
Cadmium	7440-43-9	BRL	mg/L	1	0.04		
Chromium	7440-47-3	BRL	mg/L	1	0.04		
Lead	7439-92-1	BRL	mg/L	1	0.04		
Nickel	7 44 0-02-0	BRL	mg/L	1	0.04		
Selenium	7782-49-2	BRL	mg/L	1	0.1		
Silver	7440-22-4	BRL	mg/L	1	0.04		N 44.5
Vanadium	7 44 0-62-2	BRL	mg/L	1	0.04		

QC Type: LCS and LCS	D								
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit Qua
Antimony	2	2.01	101	2	2.02	101	0.49	20	80-120
Arsenic	2	1.99	99.5	2	2.01	101	1.00	20	80-120
Barium	2	1.87	93.5	2	1.90	95	1.59	20	80-120
Beryllium	2	1.93	96.5	2	1.95	97.5	1.03	20	80-120
Cadmium	2	2.00	100	2	2.04	102	1.98	20	80-120
Chromium	2	1.87	93.5	2	1.90	95	1.59	20	80-120
Lead	2	1.91	95.5	2	1.92	96	0.52	20	80-120
Nickel	2	1.88	94	2	1.91	95.5	1.58	20	80-120
Selenium	2	2.03	102	2	2.05	103	0.98	20	80-120
Silver	2	1.95	97.5	- 2	1.99	99.5	2.03	20	80-120
Vanadium	2	1.90	95	2	1.93	96.5	1.57	20	80-120

QC Type: MS a QC Sample ID:	ind MSD 08100086.01										
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Quai
Antimony	BRL	2	2.00	100						70-130	
Arsenic	BRL	2	1.99	99.5						45-138	
Barium	0.228	2	1.98	87.6						39-135	1
Beryllium	BRL	2	1.90	95						70-130	
Cadmium	BRL	2	1.91	95.4						56-125	



Job ID: 08100136

Date:

10/15/2008

Analysis: TCLP Metals

Method:

SW-846 6010C

Reporting Units : mg/L

QC Batch ID: Qb08100732

Created Date: 10/07/08

Samples in This QC Batch: 08100136.01

Created By : Pguirguis

QC Type: MS and MSD QC Sample ID: 081000	86.01										
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Chromium	BRL	2	1.84	92						52-125	
Lead	BRL	2	1.84	92						55-125	
Nickel	BRL	2	1.84	92						70-130	
Selenium	BRL	2	2.00	100						70-130	
Silver	BRL	2	2.01	100						26-148	
Vanadium	BRL	2	1.91	95.5						70-125	



Job ID: 08100136

Date:

10/15/2008

Analysis: Volatile Organic Compounds

Method:

SW-846 8260B

Reporting Units: mg/L

QC Batch ID : Qb08100920

Created Date: 10/08/08

Created By: Whuimei

Samples in This QC Batch : 08100136.01

Sample Preparation: PB08100808

Prep Method: SW-846 5030C

Prep Date: 10/08/08 10:40 Prep By:

Whuimei

QC Type: Method Blank							
Parameter	CAS #	Result	Units	D.F.	RptLimit		Qua
1,1,1,2-Tetrachloroethane	630-20-6	BRL	mg/L	1	0.005		
1,1,1-Trichloroethane	71-55-6	BRL	mg/L	1	0.005		
1,1,2,2-Tetrachloroethane	79-34-5	BRL	mg/L	1	0.005	그 것이 사람들이 불어나다	
1,1,2-Trichloroethane	79-00-5	BRL	mg/L	1	0.005	보지 않았다는 종교 경험하다?	
1,1-Dichloroethane	75-34-3	BRL	mg/L	1	0.005		
1,1-Dichloroethylene	75-35-4	BRL	mg/L	1	0.005		
1,1-Dichloropropene	563-58-6	BRL	mg/L	1	0.005		
1,2,3-trichlorobenzene	87-61-6	BRL	mg/L	1	0.005	원리를 하는 이 불워하면	
1,2,3-Trichloropropane	96-18-4	BRL	mg/L	1	0.005		
1,2,4-Trichlorobenzene	120-82-1	BRL	mg/L	1	0.005		
1,2,4-Trimethylbenzene	95-63-6	BRL	mg/L	1	0.005		
1,2-Dibromo-3-chloropropa	96-12-8	BRL	mg/L	1	0.005		
1,2-Dibromoethane	106-93-4	BRL	mg/L	1	0.005		
1,2-Dichlorobenzene	95-50-1	BRL	mg/L	1	0.005		
1,2-Dichloroethane	107-06-2	BRL	mg/L	1	0.005		
1,2-Dichloropropane	7 8-87-5	BRL	mg/L	1	0.005		
1,3,5-Trimethylbenzene	108-67-8	BRL	mg/L	1	0.005		
1,3-Dichlorobenzene	541-73-1	BRL	mg/L	1	0.005		
1,3-Dichloropropane	142-28-9	BRL	mg/L	1	0.005		
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1	0.005		
2,2-Dichloropropane	594-20-7	BRL	mg/L	1	0.005		
2-Chlorotoluene	95-49-8	BRL	mg/L	1 1	0.005		
4-Chlorotoluene	106-43-4	BRL	mg/L	1	0.005		
4-Isopropyltoluene	99-87-6	BRL	mg/L	1 1	0.005		1
Benzene	71-43-2	BRL	mg/L	1	0.005		
Bromobenzene	108-86-1	BRL	mg/L	1	0.005		'
Bromochloromethane	74-97-5	BRL	mg/L	1	0.005		
Bromodichloromethane	75-27-4	BRL	mg/L	1	0.005		
Bromoform	75-25-2	BRL	mg/L	1	0.005		
Bromomethane	74-83-9	BRL	mg/L	1	0.005		
Carbon tetrachloride	56-23-5	BRL	mg/L	1	0.005]
Chlorobenzene	108-90-7	BRL	mg/L	1	0.005		1
Chloroethane	<i>7</i> 5-00-3	BRL	mg/L	1	0.005		
Chloroform	67 - 66-3	BRL	mg/L	1	0.005		
Chloromethane	74-87-3	BRL	mg/L	1	0.005		
cis-1,2-Dichloroethylene	156-59-2	BRL	mg/L	1	0.005		1
cis-1,3-Dichloropropene	10061-01-5	BRL	mg/L	1	0.005		
Dibromochloromethane	124-48-1	BRL	mg/L	1	0.005		l
Dibromomethane	74-95-3	BRL	mg/L	1	0.005		
Dichlorodifluoromethane	75-71 - 8	· BRL	mg/L	1	0.005		1



Job ID: 08100136

Date:

10/15/2008

Analysis: Volatile Organic Compounds

Method:

SW-846 8260B

Reporting Units:

mg/L

QC Batch ID: Qb08100920

Created Date:

10/08/08

Samples in This QC Batch:

08100136.01

Created By: Whuimei

QC Type: Method Blank CAS # Result Units D.F. **RptLimit** Parameter Qual 100-41-4 BRL 0.005 Ethylbenzene mg/L 1 BRL 0.005 98-82-8 1 Isopropylbenzene mg/L BRL 0.01 108-38-3&106-42-3 mg/L 1 m- & p-Xylenes BRL 0.005 MEK 78-93-3 mg/L 1 75-09-2 BRL 1 0.005 Methylene chloride mg/L BRL 91-20-3 1 0.005 Naphthalene mg/L BRL 0.005 104-51-8 1 n-Butylbenzene mg/L BRL n-Propylbenzene 103-65-1 mg/L 1 0.005 95-47-6 BRL 1 0.005 o-Xylene mg/L BRL 0.005 135-98-8 1 sec-Butylbenzene mg/L BRL 1 0.005 Styrene 100-42-5 mg/L BRL 1 t-butylbenzene 98-06-6 mg/L 0.005 Tetrachloroethylene 127-18-4 BRL mg/L 1 0.005 BRL 1 0.005 Toluene 108-88-3 mg/L BRL 1 trans-1,2-Dichloroethylene 156-60-5 mg/L 0.005 trans-1,3-Dichloropropene 10061-02-6 BRL mg/L 1 0.005 Trichloroethylene 79-01-6 BRL mg/L 1 0.005 Trichlorofluoromethane 75-69-4 BRL 1 0.005 mg/L Vinyl Chloride BRL 75-01-4 mg/L 1 0.005 BRL Xylenes mg/L 1 0.005

QC Type: LCS and LCS	D			1						
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
1,1,1,2-Tetrachloroethane	0.02	0.018	90	0.02	0.018	90	0	35	76.3-118	
1,1,1-Trichloroethane	0.02	0.022	110	0.02	0.022	110	0	35	74.9-127	
1,1,2,2-Tetrachloroethane	0.02	0.019	95	0.02	0.019	95	0	35	72-126	
1,1,2-Trichloroethane	0.02	0.019	95	0.02	0.018	90	5.40	35	72.7-123	
1,1-Dichloroethane	0.02	0.022	110	0.02	0.022	110	0	35	83.6-122	
1,1-Dichloroethylene	0.02	0.022	110	0.02	0.023	115	4.44	35	78.5-120	
1,1-Dichloropropene	0.02	0.022	110	0.02	0.023	115	4.44	35	76.8-123	
1,2,3-trichlorobenzene	0.02	0.019	95	0.02	0.019	95	0	35	69.9-125	[{
1,2,3-Trichloropropane	0.02	0.017	85	0.02	0.018	90	5.71	35	64.5-135	
1,2,4-Trichlorobenzene	0.02	0.019	95	0.02	0.019	95	0	35	71.4-125	1 1
1,2,4-Trimethylbenzene	0.02	0.019	95	0.02	0.019	95	0	35	78.6-120	()
1,2-Dibromo-3-chloropropa	0.02	0.018	90	0.02	0.018	90	0	35	64.1-138	}
1,2-Dibromoethane	0.02	0.018	90	0.02	0.018	90	0	35	72.3-124]]
1,2-Dichlorobenzene	0.02	0.019	95	0.02	0.018	90	5.40	35	81-119	1
1,2-Dichloroethane	0.02	0.02	100	0.02	0.02	100	0	35	78.4-130] [
1,2-Dichloropropane	0.02	0.021	105	0.02	0.02	100	4.87	35	82.3-122	
1,3,5-Trimethylbenzene	0.02	0.019	95	0.02	0.019	95	0	35	77.5-121	



Job ID: 08100136

Date:

10/15/2008

Analysis: Volatile Organic Compounds

Method:

SW-846 8260B

Reporting Units: mg/L

QC Batch ID: Qb08100920

Created Date:

10/08/08

Created By: Whuimei

Samples in This QC Batch : 08100136.01

	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
1,3-Dichlorobenzene	0.02	0.019	95	0.02	0.019	95	0	35	81.2-121	
1,3-Dichloropropane	0.02	0.017	85	0.02	0.017	85	0	35	77.2-122	
1,4-Dichlorobenzene	0.02	0.018	90	0.02	0.019	95	5.41	35	74.1-124	
2,2-Dichloropropane	0.02	0.022	110	0.02	0.022	110	0	35	72-122	
2-Chlorotoluene	0.02	0.019	95	0.02	0.019	95	0	35	78.3-124	
4-Chlorotoluene	0.02	0.019	95	0.02	0.019	95	0	35	77.7-124	
4-Isopropyltoluene	0.02	0.018	90	0.02	0.019	95	5.41	35	<i>7</i> 7.3-120	
Benzene	0.02	0.021	105	0.02	0.021	105	0	35	85-119	
Bromobenzene	0.02	0.018	90	0.02	0.018	90	0	35	76.8-123	
Bromochloromethane	0.02	0.022	110	0.02	0.022	110	0	35	79.4-127	
Bromodichloromethane	0.02	0.021	105	0.02	0.02	100	4.87	35	85-117	
Bromoform	0.02	0.018	90	0.02	0.018	90	0	35	67.9-130	1
Bromomethane	0.02	0.02	100	0.02	0.019	95	5.12	35	75.4-112	
Carbon tetrachloride	0.02	0.021	105	0.02	0.02	100	4.87	35	86.1-118	
Chlorobenzene	0.02	0.019	95	0.02	0.018	90	5.40	35	72.2-122	
Chloroethane	0.02	0.024	120	0.02	0.023	115	4.25	35	72.9-125	
Chloroform	0.02	0.022	110	0.02	0.023	115	4.44	35	80.3-122	
Chloromethane	0.02	0.022	110	0.02	0.022	110	0	35	74.5-120	
cis-1,2-Dichloroethylene	0.02	0.022	110	0.02	0.022	110	0	35	79.8-126	
cis-1,3-Dichloropropene	0.02	0.02	100	0.02	0.02	100	0	35	82.6-121	
Dibromochloromethane	0.02	0.017	85	0.02	0.018	90	5.71	35	82.1-114	
Dibromomethane	0.02	0.021	105	0.02	0.021	105	0	35	81.7-124	
Dichlorodifluoromethane	0.02	0.023	115	0.02	0.023	115	0	35	67.6-121	
Ethylbenzene	0.02	0.018	90	0.02	0.018	90	0	35	73.7-122	
Isopropylbenzene	0.02	0.019	95	0.02	0.018	90	5.40	35	74.3-120	
m- & p-Xylenes	0.04	0.037	92.5	0.04	0.036	90	2.73	35	75.2-121	
MEK	0.02	0.022	110	0.02	0.022	110	0	35	69.4-143	
Methylene chloride	0.02	0.023	115	0.02	0.023	115	0	35	65.3-133	1
Naphthalene	0.02	0.019	95	0.02	0.019	95	o .	35	64-128	
n-Butylbenzene	0.02	0.019	95	0.02	0.019	95	0	35	75.6-119	
n-Propylbenzene	0.02	0.019	95	0.02	0.019	95	0	35	76.8-123	
o-Xylene	0.02	0.019	90	0.02	0.019	90	0	35	77.1-121	
sec-Butylbenzene	0.02	0.018	95	0.02	0.019	95	0	35	76.8-123	
•	0.02	0.019	90	0.02	0.019	90	0	35	69.7-125	
Styrene	0.02	0.018	95	0.02	0.018	95	0	35	76.7-119	1
:-butylbenzene Fetrachloroethylene	0.02	0.019	90	0.02	0.019	95 85	5.71	35	69.5-125	
			1	1 1	ľ	90		35		
Toluene	0.02	0.018	90	0.02	0.018		0	} I	73.6-118	
trans-1,2-Dichloroethylene	0.02	0.022	110	0.02	0.022	110	0	35	83-119	-
trans-1,3-Dichloropropene	0.02	0.018	90	0.02	0.018	90	0	35	79-116	
Trichloroethylene	0.02	0.02	100	0.02	0.02	100	0	35	81.7-122	
Trichloroffuoromethane	0.02	0.022	110	0.02	0.023	115	4.44	35	77.3-119	
/inyl Chloride	0.02	0.022	110	0.02	0.023	115	4.44	35	80.4-122 to the Definition page for	



Job ID: 08100136

Date:

10/15/2008

Analysis: Volatile Organic Compounds

Method:

SW-846 8260B

Reporting Units: mg/L

Parameter

QC Batch ID: Qb08100920

Created Date:

10/08/08

Samples in This QC Batch:

08100136.01

Spk Added

Created By: Whuimei

QC Type: LCS and LCSD

LCS

LCS Result

LCS LCSD % Rec Spk Added

LCSD Result

LCSD % Rec

RPD RPD CtrlLimit %Recovery

CtrlLimit Qual

	Sample	MS	MS	MS	MSD	MSD	MSD		RPD	%Rec	
Parameter	Result	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
1,1,1,2-Tetrachloroethane	BRL	0.1	0.094	94						72-139	
1,1,1-Trichloroethane	BRL	0.1	0.127	127						82-137	
1,1,2,2-Tetrachloroethane	BRL	0.1	BRL							55-149	
1,1,2-Trichloroethane	BRL	0.1	0.087	87						68-139	
1,1-Dichloroethane	BRL	0.1	0.126	126						78-134	
1,1-Dichloroethylene	BRL	0.1	0.145	145						65-141	M1
1,1-Dichloropropene	BRL	0.1	0.131	131						79-136	
1,2,3-trichlorobenzene	BRL	0.1	0.126	126						54-14 4	
1,2,3-Trichloropropane	BRL	0.1	0.099	99						58-156	
1,2,4-Trichlorobenzene	BRL	0.1	0.117	117						69-127	
1,2,4-Trimethylbenzene	BRL	0.1	0.104	104						80-131	
1,2-Dibromo-3-chloropropa	BRL	0.1	0.091	91						61-145	
1,2-Dibromoethane	BRL	0.1	0.097	97						68-140	
1,2-Dichlorobenzene	BRL	0.1	0.1	100						70-138	
1,2-Dichloroethane	BRL	0.1	0.108	108						67-152	
1,2-Dichloropropane	BRL	0.1	0.116	116	} }					79-135	
1,3,5-Trimethylbenzene	BRL	0.1	0.101	101						79-133	
1,3-Dichlorobenzene	BRL	0.1	0.098	98						79-128	
1,3-Dichloropropane	BRL	0.1	0.093	93						70-147	
1,4-Dichlorobenzene	BRL	0.1	0.099	99						76-127	
2,2-Dichloropropane	BRL	0.1	0.129	129						60-129	
2-Chlorotoluene	BRL	0.1	0.101	101						83-130	1
4-Chlorotoluene	BRL	0.1	0.104	104						82-129	
4-Isopropyltoluene	BRL	0.1	0.112	112						78-129	
Benzene	BRL	0.1	0.119	119						73-129	
Bromobenzene	BRL	0.1	0.096	96	1					76-132	
Bromochloromethane	BRL	0.1	0.119	119						76-135	
Bromodichloromethane	BRL	0.1	0.104	104						80-136	
Bromoform	BRL	0.1	0.09	90					ľ	65-139	
Bromomethane	BRL	0.1	0.044	44		İ	1			65-150	M2
Carbon tetrachloride	BRL	0.1	0.114	114						86-137	
Chlorobenzene	BRL	0.1	0.103	103						69-123	
Chloroethane	BRL	0.1	0.137	137		•				74-145	
Chloroform	BRL	0.1	0.126	126]]	}	Ì			78-132	
Chloromethane	BRL	0.1	0.118	118						69-139	



Job ID: 08100136

Date:

10/15/2008

Analysis : Volatile Organic Compounds

Method:

SW-846 8260B

Reporting Units: mg/L

QC Batch ID: Qb08100920

10/08/08

Created Date:

Created By: Whuimei

Samples in This QC Batch: 08100136.01

QC Type: MS and MSD QC Sample ID: 081001	136.01								4, 4, 4, 4, 4,		en sulv Egit us
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
cis-1,2-Dichloroethylene	BRL	0.1	0.122	122						71-134	
cis-1,3-Dichloropropene	BRL	0.1	0.054	54						74-128	M2
Dibromochloromethane	BRL	0.1	0.088	88						67-141	
Dibromomethane	BRL	0.1	0.112	112						75-135	
Dichlorodifluoromethane	BRL	0.1	0.135	135						62-146	1
Ethylbenzene	BRL	0.1	0.107	107						80-132	
Isopropylbenzene	BRL	0.1	0.109	109						78-137	
m- & p-Xylenes	BRL	0.2	0.213	107						73-127	
MEK	0.373	0.1	0.134	-239.0000						52-148	M6
Methylene chloride	BRL	0.1	0.165	165						68-131	M1
Naphthalene	BRL	0.1	0.128	128						61-116	M1
n-Butylbenzene	BRL	0.1	0.116	116						73-140	
n-Propylbenzene	BRL	0.1	0.106	106						75-127	
o-Xylene	BRL	0.1	0.106	106						74-126	
sec-Butylbenzene	BRL	0.1	0.111	111						75-129	
Styrene	BRL	0.1	0.107	107						77-123	
t-butylbenzene	BRL	0.1	0.102	102				100		75-126	
Tetrachloroethylene	BRL	0.1	0.186	186						71-122	M1
Toluene	BRL	0.1	0.119	119						72-121	
trans-1,2-Dichloroethylene	BRL	0.1	0.125	125				4		73-138	
trans-1,3-Dichloropropene	BRL	0.1	0.074	74						70-133	
Trichloroethylene	BRL	0.1	0.208	208	1977 198					6-138	M1
Trichlorofluoromethane	BRL	0.1	0.12	120						67-148	
Vinyl Chloride	BRL	0.1	0.136	136						80-122	MI



Job ID: 08100136

Date:

10/15/2008

Qual

Analysis: Corrosivity, pH

Method:

SW-846 9040C

Reporting Units:

s.u.

QC Batch ID: Qb08101326

Created Date: 10/13/08

Created By: Sgarcia

Samples in This QC Batch:

08100136.01

QC Type: Duplicate

QC Sample ID: 08100136.01

QCSample Parameter Result 12.87

Sample Result Units 12.85

RPD RPD

0.16

CtrlLimit 5

QC Type: LCS and LCSD

	LCS	LCS		LCSD	LCSD		RPD		
Parameter	 Assigned	Result	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Assigned	Result	RPD	CtrlLimit	Tolerance	Qual
рН	4.00	4.04						3.95-4.05	



Job ID: 08100136

Date:

10/15/2008

Analysis: Reactive Sulfide

Method:

SW-846 7.3

Reporting Units: mg/L

QC Batch ID: Qb08101521

Created Date: 10/15/08

Created By: Ksudha

Samples in This QC Batch: 08100136.01

Sample Preparation: PB08101512

Prep Method: SW-846 7.3

Prep Date: 10/14/08 11:00 Prep By:

Ksudha

QC Type: Method Blank						
Parameter	CAS#	Result	Units	D	.F. RptLimit	Qual
Reactive Sulfide		BRL	mg/L		1 25	

QC Type: Dup	licate						
QC Sample ID:	08100	289.01					
Parameter		QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
Reactive Sulfide		300	300	mg/L	0	20	

QC Type: LCS and LCS	D .									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Reactive Sulfide	960	720	75	960	760	79.2	5.41	20	40-110	

QC Type: MS a	nd MSD											
QC Sample ID:	081002	289.01										
Parameter		Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Reactive Sulfide		300	240	440	58.3						40-110	1 19



Job ID: 08100136

Date:

10/15/2008

Analysis : Reactive Cyanide

Method:

SW-846 7.3

Reporting Units: mg/L

QC Batch ID: Qb08101523

Created Date: 10/15/08

Created By: Ksudha

Samples in This QC Batch : 08100136.01

Sample Preparation: PB08101515

Prep Method: SW-846 7.3

Prep Date: 10/14/08 11:00 Prep By:

Ksudha

QC Type: Method Blank						
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Reactive Cyanide		BRL	mg/L	1	25	

QC Type: Dupli	cate							
QC Sample ID:	08100136.01							
Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit			Qual
Reactive Cyanide	BRL	BRL	mg/L		20			

QC Type:	LCS and LCS	iD .									
Parameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Oual
Reactive Cvar	nido.	5,0	2.31	46.2	5.0	2,25	45	2.63	20	40-110	Quai
Reactive Cyai	lide	5.0	2.51	40.2	3.0	2.25	40	2.03	20	40-110	

OMY	· ·	101	. , , , , , , , , , , , , , , , , , , ,					15,848.875			Ž	12	/ <u>-</u> N	" / "	1/	/	Z		/ /	
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Sampler's Signature & Date

Chain of Custody

Company:

Address:

Contact:

Phone:

Fax: U

E-mail: U

REPORT TO:

ESENViranmental

11 19

The Chain of Custody is a Legal Document

of Containers

17.

Company:

Address:

Contact

Phone:

dcarter@eesenviran E-mail: U

Matrix

INVOICE TO:

15. Preservatives**
16. PH-Lab Only

A & B Labs

A&B JOB ID#

6. Project Name/Location

7. Reporting Requirement:

5. Project#

10100 East Fwy (I-10) Stc. 100

D TRRP Limits only | D TRRP Rpt. Package | D See Attached | D Standard Level II

Houston, TX 77029

1-877-478-6060 Toll Free 713-453-6091 Fax ablabs.com

713-453-6060

8. Sampler's Name & Company (PLEASE PRINT)

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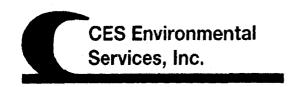
Sample Condition Checklist



Date: 10/15/08

A&B	JobID :	081001	36	Da	te Received	: 10	/06/2008		Time	Received:	3:31PM		**************************************
Clien	t Name :	CES Env	ironmer	ntai									
Tem	perature :	21.6°C		Sa	imple pH:	N/	'A	· · · · · · · · · · · · · · · · · · ·	······································	-			
i-elindiği 					Ch	eck P	oints					Yes	No
1.	Cooler sea	l present a	ınd signe	······································								N/A	
2.	Sample(s)	in a coole	r.										Х
3.	If yes, ice	in cooler.											X
4.	Sample(s)	received v	vith chai	n-of-custo	dy.							Х	
5.	C-O-C sign	ed and da	ted.									Х	
6.	Sample(s)	received v	vith sign	ed sample	custody sea	ıl.						N/A	
7.	Sample co	ntainers a	rrived int	act. (If no	comment).							Х	
8.	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	er
0.	•	<u> </u>]
9.	Sample(s)	were rece	ived in a	ppropriate	container(s).	When the second of the second			ere ere ere ere ere ere ere ere ere ere		X	
10.	Sample(s)	were rece	ived with	proper p	eservative				*********************	***********			
11.	All sample	s were log	ged or la	beled.			the second of the second of the second of the second of the second of the second of the second of the second of					X	
12.	Sample ID	labels ma	tch C-O-(C ID's	····		-					Х	
13.	Bottle cou	nt on C-O-	C matche	s bottles f	ound.				·			Х	
14.	Sample vol	lume is suf	fficient fo	or analyses	requested.	····						Х	
15.	Samples w	ere receiv	ed within	the hold	time.					·		Х	
16.	VOA vials	completely	filled.					·				N/A	
17.	Sample acc	cepted.										Х	
					discrepancie								
	e was receive ne. SGC	ed without a	cooler no	rice. RCI a	nalysis was ad	ded pe	er client email dat	ted 10/9/08.	Okay to o	continue with	corrosivity	past imn	nediate
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Recei	ved by: C	Vela					Check in	by/date:	Cvela / :	10/06/2008			····
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	713-453-6	060						· 			www.ablabs		

J PA-3093



Waste Pre-Acceptance/Approval Letter

Date 11/26/2008

Dear Linda Henson

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3093

Expiration Date 11/26/2010

Generator: Total Petrochemicals
Address: 7600 32nd Street

Port Arthur, TX 77642-7901

Waste Information

Name of Waste: Spent naphthenic caustic

TCEQ Waste Code #: Recycle

Container Type:

Detailed Description of Process Generating Waste:

Treating of kerosene and jet fuel with caustic to remove sulfur compounds

Color: dark

Dhysical States

Physical State:

Incompatibilities: strong acids

Safety Related Data/Special Handling:

ppe for corrosive materials, glasses/goggles/face shield

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Odor: charactristic naphtheni pH: 10-14

Thank you,

Matt Bowman, President CES Environmental Services, Inc. Cannot approve at this line. Requires Dir. of Operations approval.

Cannot approve at this line. Requires Dir. of Operations approval.

We have tried this before, Cannot handle at CES Houston, there must be an outhoft for this material.

CES Environmental Services - Houston Facility

CES Environmental Services - Port Arthur Facility

CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948							242 Pho	ovironment 20 S. Gulfwa ne (713) 67 umber: TXF	ny Dr., Port 6-1460 F	: Arthur, Tx ax: (713) 6	77641		585
SECTION 1: Company: Address:	Total Pet	or Information trochemicals		······································	······································	·····				******	and the second		
						TV		7:	77642	7001			
City:	Port Arth			Sta	ate:	TX		Zip:	77642-				
Contact:	Corbin Si					Title:		Environm	ental Eng	ineer			
Phone Num		409-963	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		·	Fax Num	ber:						
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State ID No:	:	<u> 30</u>	<u> </u>			SIC Code	:	-2911					
SECTION 2: Company: Address:	Process S			ne as Abo	ove								
City:	Houston				ate:	TX		Zip:				7	7032
Contact:		McDonald				Title:		p·					
Phone Numi		832-300)-5712			Fax Num	ber:						
Name of Wa Detailed De	aste: scription (Spent na Spe	aphthenic ca	ustic /aste:	sulfur cc	ompound	s						
Physical Sta	te: 🖸	Liquid Solid			ıdge ter Cake			Powder Combinat	ion				
Color:	dark					Odor:		character	istic naph	thenic aci	d		
Specific Grav	vity (wate	er=1):			1.05			Density:	8-	Jan lbs/ga	ıl		
Does this ma	aterial co	ntain any to	tal phenolic	compoun	nds?	V	Yes		No				
Does this ma	aterial coi	ntain any pa	ra substitut	ed pheno	lic comp	ounds?			Yes	√ No			
Is the Waste	subject t	o the benze	ne waste on	eration N	IESHAP?	(40 CFR F	Part 6	1. Subpart	FF)	П	Yes	V	No
	-	vaste contain	1			-			•	llowing:		_	
2812	-		2816	2819	2821	•	2822	282		324	2833		2834
2835			2841	2842	2843		2844			361	2865		2869
2873		374	2876	2879	2891		2892	289		396	2899		2911
3312			4959	9511	2001		2002	203	, 20	,,,,	2000		2711
Layers:	☑ s	ingle-phase		Multi-ph	_								
Container Ty	/pe: [Drum	Tote	Ľ ITL	ick []	Other (ex	kpiain	'/					
Frequency: Quantity:	☑ Weel	kly 🗌 Mor	-	early 5-Feb	One-Ti	me							

	Is this a USEPA "Hazardous Waste" per 40CFR 261.3? Yes No If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto								
Characteris	If "Yes", Is it: D001 (Ignitable) D002 (Corrosive) D003 (Reactive) haracteristic for Toxic Metals: D004 D005 D006 D007 D008 D009 D010 D011 haracteristic for Toxic Organics: D012 thru D043 (please list all that apply)								
		d waste or mb		?	□ Y	es 🗸] No		
40 CFR 261.	Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)?								
Texas State	Waste Code	Number:		Recycle			_		
Proper US D Class:	Proper US DOT Shipping Name: Corrosive Liquids, n.o.s. (Naphthenic caustic acid Class: 8 UN/NA: 1760 PG: 11 RQ: 1000								
Flash Point pH Reactive Sulfides Reactive Cyanides Solids						ids			
N/A 10-14				N/A	mg/i	N/A	mg/l	0	%
Oil & Grease T		TO			Zinc		pper	Nickel	
5-7%	<u>mg/l</u>	N/A	mg/l	N/A	mg/l	N/A	mg/l	N/A	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	01%
Sodium Hydroxide	2-20	%
Naphthenic acid salts	0-6	%
Petroleum distillates	0-1	%
Mixed cresylic acid salts	0-2	%
Water	Balance	%
	· ·	<u> </u>

	Safety Rela				_1	
		raste requires the u rials, glasses/goggle	se of special protective ed	Nipment, piease expi	aın.	
FFE IOI COI	iosive mater	iais, Biasses/ BORBie	Stope Shield	<u> </u>		
		upporting Docume		ac nart of the waste		
approval pa		es, data and/or anai MSDS	ysis attached to this form	as part or the waste		
athicasi be	ickage.	141303				
	Incompatib	<u>pilitles</u> tibilities (if any):				
Strong Acid	s					
	7			-		
		s Knowledge Docur				
			characteristics, listed bel	ow, WAS NOT PERFO	RMED	
based upon	the followin	ng generator knowle	edge:			
TCLP Metal	۸,	v				
TCLP Volati		X				
TCLP Semi-		x		······································		
Reactivity:	· Old Choos	X	***************************************			
Corrosivity:		X				
Ignitability:		X				
,		·····		······································		
	Waste Receip	t Classification Unde	r 40 CFR 437 (Prtaining to P	re-Treatment Requirer	nents fo	r Centralized Waste Treatment
<u>Facilities</u>)	is this mater	rial a wastewater or v	inctounter chidan?	(YES	☑ NO
		complete this section			1 123	El Ko
	PLEASE CHE	CK THE APPROPRIATE	E BOX. IF NO APPROPRIATE	CATEGORY, GO TO TH	E NEXT	PAGE.
Matale Subs	ategory: Sub	mart A				
MECOIS SUDE		oplating baths and/o	r sludges			
		ing rinse water and sl				
	Chromate w					
<u> </u>		control blow down ving solutions	vater and sludges			
		wastewaters				
	Waste liquid	mercury				
		taining wastes greate				
		and bases with or wi	thout metals paration solutions from ele	rtroutating or phoening	tina ana	melana
		burring wastewater	paration solutions from ele-	resolvacies or buospies	emg ope	Radons
			o clean metal parts or equip	oment		
Oils Subcate	g <u>ory</u> : Subpar	t B				
	Used oils					
******		nulsions or mixtures				
	Lubricants Coolants					
		ed groundwater clear	ı-up from petroleum source	·s		
	Used petrole	eum products				
	Oil spill clear	n-up				
	Bilge water	waters from petroleu	m coverer			
	THEORY WORLD	warers work berrolen	11: 3UUI CE3			

☐ interceptor wastes
Off-specification fuels
Underground storage remediation waste
☐ Tank clean-out from petroleum or oily sources ☐ Non-contact used glycols
Aqueous and oil mixtures from parts cleaning operations
☐ Wastewater from oil bearing paint washes
— · · · · · · · · · · · · · · · · · · ·
Organics Subcategory: Subpart C
Landfill leachate
Contaminated groundwater clean-up from non-petroleum sources
☐ Solvent-bearing wastes
☐ Off-specification organic product☐ Still bottoms
Byproduct waste glycol
☐ Wastewater from paint washes
Wastewater from adhesives and/or epoxies formulation
☐ Wastewater from organic chemical product operations
☐ Tank clean-out from organic, non-petroleum sources
(1)
If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)
If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
excess of the values listed below, the waste should be classified in the metals subcategory.
Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L
Helical S. I. S. H. J.
If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
SECTION 10 Additional instructions
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium,
Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11: Generator's Certification
The information contained herein is based on generator knowledge and/or analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of
my knowledge and ability to determine that no deliberate or willful omissions of compostion
properties exist and that all known or suspected hazards have been disclosed. I certify that the
materials tested are representative of all materials described by this document.
Authorized Signature: Local Signature: Date: 11/12/08
Printed Name/Title: CORBIN D. SMITH / ENVIRONMENTAL ADVISOR
CES USE ONLY (DO NOT WRITE IN THIS SPACE)
and the state of t
Compliance Officer:
Date: 11-26-08 Approved Rejected
Approval Number: 3093



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
Freight - \$0.07/gallon Management - \$0.41/gallon
2. Contamination Limit (maximum limit before surchages apply):
NA .
3. Surcharge Pricing:
NA NA
4. Special Testing Requirements:
NA NA
5. Treatment and Handling Protocol:
Break emulsion by bringing pH to <2. Allow water to phase separate. Collect oil and sell as naphthenic acid.
Water phase will be Category B water and dipsosed at CES or System 1.
C. Turata d'Mantauratau Diaghaura Culturata manu
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☑ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):	
8. Management for Product Recovered/Recycled (if applicable)	
Sell oil phase as naphthenic acid.	
1	



TOTAL PETROCHEMICALS

OTAL PETROCHEMICALS USA, INC

Material Safety Data Sheet

Section 1. Che	emical Product and Company Identification	
Trade name	Spent Caustic	Code 004211
Supplier	TOTAL PETROCHEMICALS USA, INC. P O Box 674411 Houston, Tx. 77267-4411	MSDS# P100 Validation Date 10/15/2004
Synonym	Naphthenic Caustic	Print Date 10/15/2004
MSDS Name	Spent Caustic	Responsible for Paul Bradley Preparation
Chemical Family	Mixture	
CAS Registry Number	64742-40-1	In Case of Chemtrec: Emergence: (800) 424-9300 TOTAL PETROCHEMICALS
Threshold Limit Value	Sodium Hydroxide CEIL: 2 (mg/m³) from ACGIH (TLV) TWA: 2 (mg/m³) from OSHA	USA, INC: (800) 322-3462 Technical Port Arthur: (409) 962-4421
Manufacturer	TOTAL PETROCHEMICALS USA, INC. P.O. Box 849 Port Arthur, TX 77641-0849	Information

Section 2. Composition and Information on Ingredients								
Name	CAS#	% by Weight	Exposure Limits					
Neutralizing agents, petroleum, spent sodium hydroxide	64742-40-1	100 %	Not established.					
Sodium Hydroxide	1310-73-2	< 20	CEIL: 2 (mg/m³) from ACGIH (TLV) TWA: 2 (mg/m³) from OSHA					
Cresylates		Varies	(inglin)					

Section 3. Hazards	s Identification					
Physical State and Appearance	Liquid.					
Emergency Overview	CONTAINS MATERIAL WHICH MAY CAUSE DIGESTIVE SYSTEM, RESPIRATORY TRACT, SKIN, EYES DAMAGE. CAUSES SEVERE EYE BURNS.					
Routes of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.					
Potential Acute Health Eff	ects					
Eyes Extremely hazardous in case of eye contact (irritant). Corrosive to eyes on contact.						
Skin Very hazardous in case of skin contact (corrosive). Skin contact may produce burns or dermatitis						
Inhalation	Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Over-exposure by inhalation may cause respiratory irritation and/or pneumonia. Corrosive to the respiratory system.					
Ingestion	May be fatal if swallowed. May cause burns to mouth, throat, stomach, nose, & eyes.					
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.					
Medical Conditions Aggravated by Overexposure	Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.					
Overexposure Severe tissue damage at all points of contact. Signs/Symptoms						
See Toxicological Informati	See Toxicological Information (Section 11)					
Continued on Nex	<i>t Page</i>					

Spent Caustic	Page: 2/6

Section 4. First	t Aid Measures
Eye Contact	Flush with large amounts of water. If redness persists, get medical attention.
Skin Contact	If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Inhalation	Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.
Ingestion	DO NOT induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Notes to Physician	Treat as alkali poisoning.

Section 5. Fire Fig	nhting Measures
Flammability of the Product	Aquious components will not buen. However, lesser organic components may burn at high temperature.
Auto-ignition Temperature	Not available.
Flash Points	Not available.
Flammable Limits	Not available.
Products of Combustion	Not available.
Fire Hazards in Presence of Various Substances	Not considered to be flammable according to our database.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not expected. Risks of explosion of the product in presence of static discharge: Not expected.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder, CO2, and halon. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.
Protective Clothing (Fire)	Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear (Bunker gear).
Special Remarks on Fire Hazards	No additional remark.
Special Remarks on Explosion Hazards	No additional remark.

Section 6. Accid	ental Release Measures		1.00	1			
Small Spill and Leak	Dilute with water and mop up, waste disposal container.	or abso	rb with an i	nert DRY	material a	and place in	an appropriate
Large Spill and Leak	Corrosive liquid. Contain s Eliminate all sources of igniti material in an appropriate was	on. Ver	ntilate. Abs	the flow orb with	v. Warn p an inert m	personnel t paterial and	o move away put the spilled

Continued on Next Page

Page: 3/6 **Spent Caustic**

Section 7. H	andling and Storage
Handling	Keep away from incompatibles such as acids. Wear suitable protective clothing.
Storage	Keep container dry. Keep in a cool place. Ground all equipment containing material. Corrosive materials should be stored in a separate safety storage cabinet or room.

Section 8. Exposure Controls/Personal Protection

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of **Engineering Controls** vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection

Eyes Face shield. Splash goggles.

Body Full suit.

Respiratory

Use a MSHA/NIOSH approved respirator or equivalent at high concentrations.

Hands Chemical resistant gloves if contact is possible.

Feet Boots.

Protective Clothing (Pictograms)





Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits Product Name Not established.

Neutralizing agents, petroleum, spent sodium hydroxide

Sodium Hydroxide

CEIL: 2 (mg/m 3) from ACGIH (TLV) TWA: 2 (mg/m 3) from OSHA

Cresylates

Consult local authorities for acceptable exposure limits.

Section 9. Physic	cal and Chemical Properties		
Physical State and Appearance	Liquid.	Odor	Not available.
Molecular Weight	Not applicable.	Taste	Not available.
Molecular Formula	Not applicable.	Color	Not available.
pH (1% Soln/Water)	10-14		
Boiling/Condensation Point	Not available.		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Specific Gravity	1.05 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	Not available.		·
Volatility	Not available.		
Odor Threshold	Not available.		
Evaporation Rate	Not available.		
Continued on Ne	ext Page		

Spent Caustic		Page: 4/6
VOC	Not available.	
Viscosity	Not available.	
LogKov	Not available.	
lonicity (in Water)	Not available.	
Dispersion Properties	See solubility in water.	
Solubility in Water	Soluble.	
Physical Chemical Comments	No additional remark.	

Section 10. Stability and Reactivity				
Stability and Reactivity	The product is stable.			
Conditions of Instability	No additional remark.			
Incompatibility with Various Substances	Extremely reactive or incompatible with strong acids.			
Hazardous Decomposition Products	carbon monoxide & carbon dioxide			
Hazardous Polymerization	No.			

Section 11. Toxicological Information					
Toxicity to Animals	LD50: Not available. LC50: Not available.				
Chronic Effects on Humans	The substance is toxic to digestive system, upper respiratory tract, skin, eyes.				
Other Toxic Effects on Humans	Extremely hazardous in case of eye contact (irritant). Very hazardous in case of skin contact (corrosive).				
Special Remarks on Toxicity to Animals	No additional remark.				
Special Remarks on Chronic Effects on Humans	No additional remark.				
Special Remarks on Other Toxic Effects on Humans	No additional remark.				

Section 12. Ecole	ogical Information		
Ecotoxicity	Not available.		
BOD5 and COD	Not available.	· · · · · · · · · · · · · · · · · · ·	
Biodegradable/OECD	Not available.		
Mobility	Not available.		
	Not available.		
Toxicity of the Products Biodegradation	of No information available.		
Special Remarks on the Products of Biodegradation	No additional remark.		

Continued	on N	ext F	² age
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Spent Caustic	Page: 5/6
<u></u>	
Continue 42 Diamonal Considerations	

Section 13. Disposal Considerations Waste Information Recover free liquid. Transfer to a safe disposal area in accordance with federal, state, and local regulations. Waste Stream Recover free liquid. Transfer to a safe disposal area in accordance with federal, state, and local regulations. Consult your local or regional authorities.

Section 14. Transport Information (for bulk shipments, non-bulk shipments may differ)					
DOT Classification for Bulk Shipments (non bulk shipments may differ)	DOT CLASS 8: Corrosive liquid.				
DOT Proper Shipping Name	Caustic alkali liquids, n.o.s. (sodium hydroxide), 8, UN1719, II RQ				
UN Number	UN1719				
Packing Group	II				
USCG Proper Shipping Name	Not available.				
Marine Pollutant	Not listed in Appendix B of 49 CFR 172.101				
Hazardous Substances Reportable Quantity	Sodium Hydroxide 1000 lbs				
Special Provisions for Transport	See codes as shown in 49 CFR 172.101 Column 7.				
TDG Classification	TDG CLASS 8: Corrosive liquid. TDG CLASS 9.2: Environmentally hazardous material.				
ADR/RID Classification	ADR CLASS 8: Corrosive liquid. Highly corrosive.	و و در در در در در در در در در در در در در			
IMO/IMDG Classification	IMDG CLASS 8: Corrosive liquid.				
ICAO/IATA Classification	IATA CLASS 8: Corrosive liquid.				

Section 15. Regul		
HCS Classification	HCS CLASS: Target organ effects. HCS CLASS: Corrosive liquid.	
U.S. Federal Regulations	TSCA inventory: Yes SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.	
	Clean Water Act (CWA) 307: No products were found.	
	Clean Water Act (CWA) 311: No products were found.	
	Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found.	
International Regulations WHMIS (Canada)	WHMIS CLASS E: Corrosive liquid.	
	CEPA DSL: Spent Caustic	

Spent Caustic		Page: 6/6
EINECS	Not available.	
DSCL (EEC)	R35- Causes severe burns. R41- Risk of serious damage to eyes.	
International Lists	No products were found.	
State Regulations	New York acutely hazardous substances: sodium hydroxide Pennsylvania RTK: sodium hydroxide Florida: sodium hydroxide Minnesota: sodium hydroxide Massachusetts RTK: sodium hydroxide New Jersey: sodium hydroxide California prop. 65: No products were found.	

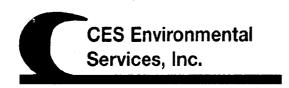
Section 16. Other	Information			
Label requirements	CONTAINS MATERIAL WHICH MAY CAUSE DIGESTIVE SYSTEM, RESPIRATORY TRACT, SKIN, EYES DAMAGE. CAUSES SEVERE EYE BURNS.			
Hazardous Material Information System (U.S.A.)	Fire Hazard 0 Prot			
references -not	76 - Hazaidous Substatices Data	Dairk		
Other Special No ac Considerations	dditional remark.			
Validated by Paul Bradley on 10/15/2004.		Verified by Paul Bradley.		
		Printed 10/15/2004.		
Chemtrec: (800) 424-9300 TOTAL PETROCHEMIC. (800) 322-3462	ALS USA, INC:			

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

...

PA-3115



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

pH: >12.5

Material / Product Approval Letter

Date 12/16/2008

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3115

Expiration Date 12/15/2010

Producer: Plymouth Extruded Shapes

Address: 201 Commerce Court

Hopkinville, KY 42445

Material / Product Information

Name of Material / Product Sodium hydroxide solution alkaline cleaner

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Cleaning for removal of draw lube from metal products

Color: dark Odor: caustic

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

none

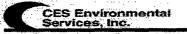
If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

Port Arthur there should be no oil



4904 Griggs Road, Houston, TX 77021 Phone: (713) 676-1460 Fax: (713) 676-1676

http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 30948

U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

48

Cq Scenvironmental-PortAthur 2420 Gulffway D-

SECTION 1: Generator Information			
company: Plymouth Extruded Shaves			
Address: 201 COMMETCE COURT			
City: Hook NVIIIC State: KY Zip: 42445			
Contact: Kenny Daugherty Title: EH+5 ManageR			
Phone Number: 270 - 886-6631 Fax Number: 270-885-9034			
24/hr Phone Number: 888 - 741 - 6425 EMA			
US EPA ID No: <u>KYD 0 P42 70461</u>			
State ID No: SIC Code:			
SECTION 2: Billing Information - Same as Above Company: EMA INC. Address: 10627 MIDINEST INDUSTRIAL DIVA. City: St. Louis State: MO Zip: 63132			
Contact: Maria Tumberello Title: Office Man.			
Phone Number: 314-785-6425 Fax Number: 314-7854 6426			
SECTION 3: General Description of the Waste			
Name of Waste: Sodium Hydroxide Solution Alkaline Cleaver Detailed Description of Process Generating Waste:			
Detailed Description of Process Generating Waste:			
Cleaning for Removal of DRAW Lube from Metal			
Change 11) Tambou of DATIN LOVE VION METAS			
Drogues.			
Physical State: Liquid Sludge Powder Solid Filter Cake Combination			
Color: DARK Odor: CAUSTIC			
Specific Gravity (water=1): Density: 927 lbs/gai			
Does this material contain any total phenolic compounds? Yes No			
Does this material contain any para substituted phenolic compounds?			
Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:			
2812 2813 2816 2819 2821 2822 2823 2824 2833 2834			
2835 2836 2841 2842 2843 2844 2851 2861 2865 2869			
2873 2874 2876 2879 2891 2892 2893 2896 2899 2911			
3312 4953 4959 9511			
Layers: Single-phase			
Container Type: Drum Tote Truck Other (explain)			
Frequency: Weekly Monthly Yearly One-Time Quantity: 5000 gallows			

	ous Waste" per 40CFR 261.: nplete, sign and date the Und		Yes Yes Yes	—	
Characteristic for Toxic		□ D011	□ D00€	D003 (Reactive) D007 D008	□ D009
	ed waste or mixed with one st ALL applicable codes:	·? -	☐ Yes	ZN0	
40 CFR 261.33(e) or (f)?	duct or spill cleanup that w Y	ould carry a 'es (4)		aste code under	
Texas State Waste Code Proper US DOT Shipping	<i><</i>	padulion Hy	droxide	de 5 Solution	
Class: 8	UN/NA: UN/824	PG:	ガニ		-
Flash Point	pH	Reactive	e Sulfides	Reactive Cyanides	Solids
7200	712.5	0	mg/l		2/ %
Oil & Grease mg/l	TOC mg/l	Z	inc mg/l	Copper mg/l	Nickel
SECTION 4: Physical and CON	Chemical Data MPONENTS TABLE			CONCENTRATOIN	UNITS
	ists of the following materia	als	Ranges are acceptable		or %
Sodium Hyd	droxide		10		
Water See Attache	d analysis in	50S)		0-80	
			<u></u>		

	3. Salety Relateu Data	
	ndling of this waste requires the use of special protective equipment, plea ADDNC	sse explain.
<i></i>	70 070 C	
		
CECTION C	C. Athachad Sermonting December	
	6: Attached Supporting Documents	wash
	cuments, notes, data and/or analysis attached to this form as part of the	
approval pa	package. YRS—QNA/YSFS + MSL	
		NAME OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER OF THE OWNER OWNE
SECTION 7	7: Incompatibilities	
	t ALL incompatibilities (if any):	
	Xidi 20-5	
	NOTURS	
•		
SECTION 8:	B: Generator's Knowledge Documentation	
	y analysis of the hazardous waste characteristics, listed below, WAS NOT	PERFORMEN
	on the following generator knowledge:	I FIXE PASSAGE
Dasca apon	an energina generator anomicuse.	
TCLP Metals	nie-	
TCLP Volatil	Allana	
TCLP Semi-\	: Malatilan	
Reactivity:		
Corrosivity:		
Ignitability:	/:	
	Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment)	Requirements for Centralized Waste Treatment
Facilities)	Is this material a wastewater or wastewater sludge?	☐ YES ☑ NO
	If 'Yes', complete this section.	LI IES IXI NO
	PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, G	O TO THE NEXT PAGE.
	and a series of the series of	
vietais Subco	category: Subpart A Spent electropiating baths and/or sludges	
H	Spent electropiating battls analysis studges Metal finishing rinse water and sludges	
ī	Chromate wastes	
	Air pollution control blow down water and sludges	
	Spent anodizing solutions	
	Incineration wastewaters	
닏	Waste liquid mercury	
	Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals	
H		
H	Cleaning, rinsing, and surface preparation solutions from electroplating or partial Vibratory deburring wastewater	mosphating operations
	Alkaline and acid solutions used to clean metal parts or equipment	
Dils Subcated	egory : Subpart B	
· 📮	Used oils	
Ц	Oil-water emulsions or mixtures	
片	Lubricants	
	Coolants Contaminated grayindwater slean-up from netrology sources	
	Contaminated groundwater clean-up from petroleum sources Used petroleum products	
	Oil spill clean-up	
Ħ	Bilge water	
	Rinse/wash waters from petroleum sources	

Interceptor wastes	
Off-specification fuels	
☐ Underground storage remediation waste	
☐ Tank clean-out from petroleum or oily sources	
☐ Non-contact used glycols	
Aqueous and oil mixtures from parts cleaning operations	
Wastewater from oil bearing paint washes	
<u>Organics Subcategory</u> : Subpart C	
Landfill leachate	
Contaminated groundwater clean-up from non-petroleum sources	
Solvent-bearing wastes	
☐ Off-specification organic product	
Still bottoms	
Byproduct waste glycol	
Wastewater from paint washes	
☐ Wastewater from adhesives and/or epoxies formulation	
Wastewater from organic chemical product operations	
Tank clean-out from organic, non-petroleum sources	
(4)	
(1)	
If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.	
(2)	
(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in	
excess of the values listed below, the waste should be classified in the metals subcategory.	
Cadmium: 0.2 mg/L	
Chromium: 8.9 mg/L	
Copper: 4.9 mg/L	
Nickel: 37.5 mg/L	
If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, coppe or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metais Subcategory Oils Subcategory Organics Subcategory	۲,
SECTION 10 Additional instructions	
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromiun Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.	١,
SECTION 11: Generator's Certification	
hereby certify that the above and attached description is complete and accurate to the best of	
my knowledge and ability to determine that no deliberate or willful omissions of compostion	
properties exist and that all known or suspected hazards have been disclosed. I certify that the	
materials tested are representative of all materials described by this document.	
Authorized Signature: Date: 4/192088	
Printed Name/Title: Sinstly Thyll-UP.	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
A TOTAL TO THE THE THE TIME TH	
Compliance Officer: Policy Many de	
Date: 12-15-2008 Approved Rejected	
Approval Number: 31/5	



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
\$ 0.45/gal + energy surcharge + compliance fee
2. Contamination Limit (maximum limit before surchages apply):
<1% solids, 0% oil.
3. Surcharge Pricing:
4. Special Testing Requirements:
See Section 6
5. Treatment and Handling Protocol:
See section 7
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):							
test pH, % Nemcentration by litration, To solids and Oil,							
8. Management for Product Recovered/Recycled (if applicable)							
decant top layer into oil/water Separator tank at Port							
Softwar. @ Send caustic to caustic feed tank for							
NaSH production							

McCoy && McCoy Laboratories, Inc. P. O. Box

Madisonville, KY www.mccoylabs.com

Plymouth Extruded Shapes

Attn: Greg Studer 201 Commerce Court Hopkinsville KY 42240 Lexington KY 859-299-7775 Madisonville KY 270-821-7375 Paducah KY 270-444-6547 Pikeville KY 606-432-3104

D.Wolfe@mccoylabs.com

Batch #: 06022333 Received: 02/28/2006 Reported: 03/13/2006

03/13/2006

Client: Page: PL8500 1 of 1

Analysis

AE36041 Alkaline Collected: 2/28/2006

						Report	;
Test Description	Analyzed	Ву	Method	Result	Units		MCL Note
Extraction TCLP Filtration	03/02/2006	KET	EPA 1311	3/2/06			
Arsenic - Solid Waste/Liquid - TCLP	03/07/2006	FAM	SW 6020	0.028	mg/l	0.002	5.0
Barium -Solid Waste/Liquid - TCLP	03/07/2006	FAM	SW 6020	0.432	mg/l	0.002	100.
Cadmium - Solid Waste/Liquid - TCLP	03/07/2006	FAM	SW 6020	0.002 U	mg/l	0.002	1.0
Chromium - Solid Waste/Liquid - TCLP	03/07/2006	FAM	SW 6020	2.36	mg/l	0.002	5.0
Lead - Solid Waste/Liquid - TCLP	03/07/2006	FAM	SW 6020	0.691	mg/l	0.002	5.0
Mercury- Solid Waste/Liquid - TCLP	03/07/2006	FAM	SW 6020	0.0002 U	mg/l	0.0002	0.2
Selenium - Solid Waste/Liquid - TCLP	03/07/2006	FAM	SW 6020	0.01	mg/l	0.002	1.0
Silver - Solid Waste/Liquid - TCLP	03/07/2006	FAM	SW 6020	0.002 U	mg/l	0.002	5.0

Submitted By:

Doug Wolfe, Director of Laboratory Services

The analyses reported above have been determined by protocols that meet or exceed the requirements of NELAC. Methods listed with an "*" are not part of this accreditation. Call Doug Wolfe at 270-821-7375 for any questions concerning this analysis report.

MATERIAL SAFETY DATA SHEET

NO. 499

Revised: March 01, 2006

Product Name: USED, SODIUM HYDROXIDE, Hopkinsville, KY

PLYMOUTH EXTRUDED SHAPES

201 Commerce Court Hopkinsville, KY 42240

USA

Emergency Phone: (270) 348-4830

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical Formula: Sodium hydroxide
Other Designations: Caustic soda (Caustic)
Product Use: Processing to resell caustic soda
Manufacturer: Plymouth Extruded Shapes, KY
USA Phones: Health & Safety: (270) 348-4830

2. COMPOSITION/INFORMATION ON INGREDIENTS

				Exposure Li	mits (TWA in mg/m³)
Components	CAS No. % by W	% by Weight	by Weight Form	ACGIH TLV	OSHA PEL
Sodium hydroxide	1310-73-2	10-20%	_		
Water		80-90%			
Trace Metals					
Chromium Lead		2.36 mg/l 0.691 mg/l			
	}				

cmpds = compounds

3. HAZARDS INFORMATION

EMERGENCY OVERVIEW

Liquid, gray-white color. Odorless. Non-combustible. CORROSIVE.

Can cause severe irritation, corrosive burns, and permanent damage to eyes, skin, respiratory tract and gastrointestinal tract.

Potential Health Effects

EYES: Direct contact can cause severe irritation, corrosive burns, and permanent damage including blindness.

SKIN: Direct contact can cause severe irritation, burns and damage to skin.

INHALATION: Can cause respiratory tract irritation, lung damage and other health effects listed below. Cancer and reproductive hazard.

INGESTION: Can cause irritation and damage to the gastrointestinal tract if swallowed.

This material can cause corrosive burns to eyes or skin on contact due to its alkalinity. It is destructive to all contacted human tissue and gives severe burns. Eye contact will produce severe or permanent injury including blindness. Inhalation of mist or spray can cause irritation or injury to the upper respiratory tract. Chronic exposure to liquid mist can cause irritation or damage to the respiratory tract tissues.

Sodium hydroxide can cause severe irritation/corrosive burns to the eyes, skin, mucous membranes, and respiratory system.

Medical conditions aggravated by exposure to the product: Asthma, chronic lung disease, and skin rashes.

*IARC CLASSIFICATIONS:

Group 1: The agent is carcinogenic to humans.

There is sufficient evidence that a causal relationship existed between exposure to the agent and human cancer.

Group 2B: The agent is possibly carcinogenic to humans.

Generally includes agents for which there is limited evidence in humans in the absence of sufficient evidence in experimental animals.

4. FIRST AID MEASURES

EYES: Wash eyes <u>immediately</u> with plenty of running water for at least 15 minutes including under the eyelids and all surfaces. Speed in rinsing eyes after contact is extremely important if permanent injury is to be avoided. Obtain emergency medical care.

SKIN: Wash contact area promptly with large quantities of water. Remove contaminated clothing under the shower. Prolong washing in serious cases until medical help arrives, even for an hour or longer.

INGESTION: Do not give anything by mouth to an unconscious person. Immediately dilute chemical by drinking water or milk, up to 30 mL in children and 250 mL in adults. Do not neutralize with dilute vinegar, fruit juice or other acidic agents. Vomiting may occur spontaneously, but do not induce it. Contact a physician immediately.

INHALATION: Remove to fresh air. Check for clear airway, breathing, and presence of pulse. Provide CPR for persons without pulse or respirations. Consult a physician immediately.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Sodium hydroxide solution is non-combustible. Sodium hydroxide will react vigorously with metals such as aluminum, tin, and zinc to generate flammable and explosive hydrogen gas.

EXTINGUISHING MEDIA: Use fire extinguishing agent suitable for surrounding fire. Use water spray to cool containers of this material which are involved in a fire situation. However, take care not to splash this caustic solution.

FIRE FIGHTING INSTRUCTIONS: Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

6. ACCIDENTAL RELEASE MEASURES

SMALL/LARGE SPILL: Contact environmental control personnel. Plan ahead for handling spills. Personnel working on cleanup must use protective clothing/equipment to prevent body contact

with the liquid and be properly trained as required by OSHA regulations. Abundant running water should be available for emergency use. Pick up spill with vacuum equipment (alkali resistant) for disposal or flush to holding area with water. Neutralize residues with dilute acid and rinse with water.

7. HANDLING AND STORAGE

HANDLING: Avoid handling conditions that may lead to spills or to mist formation. Do not permit workers to handle this material without proper training or without proper equipment. STORAGE: Store in well-sealed containers which are protected from physical damage. Have abundant running water available where stored, unloaded, or handled. Drains must have retention basin for pH adjustment and neutralization of spilled materials and flushings before discharge.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use with adequate ventilation to meet the limits listed in Section 2.

RESPIRATORY PROTECTION: Use NIOSH-approved respiratory protection (mist respirator, high efficiency dust respirator for lead) as specified by an Industrial Hygienist or other qualified professional if concentrations exceed the limits listed in Section 2.

SKIN PROTECTION: Wear chemical resistant gloves and other appropriate protective clothing to prevent skin contact.

EYE PROTECTION: Wear chemical splash goggles or face shield to prevent eye contact.

Sampling to establish lead level exposure is advised where exposure to airborne particulate or fumes is possible. Consult OSHA Lead Standard 29 CFR 1910.1025 for specific health/industrial hygiene precautions and requirements to follow when handling lead compounds

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Liquid (may contain precipitated inorganic salts); gray-white color

BOILING TEMPERATURE: 288-298°F (for 50% NaOH) FREEZE-MELT TEMPERATURE: Not determined

VAPOR PRESSURE: <1.0 mmHg EVAPORATION RATE: Not applicable

SPECIFIC GRAVITY: 1.2-1.3
DENSITY: See Specific Gravity
WATER SOLUBILITY: ~100%

PH: ≥12.5 ODOR: None

ODOR THRESHOLD (ppm): Not determined.

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not determined

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions in a sealed container. Do not store in magnesium, tin, chromium, aluminum, and zinc, and brass, bronze or galvanized containers.

REACTIVITY: This material will react with carbon dioxide in the air (when exposed) to form sodium carbonate. It will react violently with acids and with many organic chemicals, especially nitrocarbons and halocarbons. (Trichloroethylene will react with sodium hydroxide to form spontaneously flammable dichloroacetylene)

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

LD₅₀ or LC₅₀ for oral, dermal or inhalation routes of administration: No information found.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL/CHEMICAL FATE INFORMATION; No information found.

13. DISPOSAL CONSIDERATION

Material may be neutralized on-site with necessary permits and precautions or off-site by a reputable waste treatment company.

RCRA Hazardous Waste No.: D002 due to the high ph

14. TRANSPORT INFORMATION

U.S.A. DOT: Sodium Hydroxide Solution, 8, UN1824, II, RQ,
Note: For packages less than 4,165 lb., delete "RQ" reference.
Canadian TDG Hazard Class & PIN: 8, UN1824

15. REGULATORY INFORMATION

U.S. Federal Regulations

TSCA STATUS: All components of this product are listed on the TSCA inventory. CERCLA HAZARDOUS SUBSTANCES: Chromium, Sodium hydroxide. SARA TITLE III

Section 311/312 Physical and Health Hazard Categories: Immediate (acute), Delayed (chronic).

Section 313 Toxic Chemicals: Chromium

In reference to Title VI of the Clean Air Act of 1990, this material does not contain nor was it manufactured using ozone-depleting chemicals.

State Regulations

PENNSYLVANIA "Special Hazardous Substance"

International Regulations

CANADIAN DOMESTIC SUBSTANCES LIST: All components of this product are listed on the Canadian DSL.

EUROPEAN COMMUNITY: All components of this product are listed on ECOIN, the European Core Inventory.

JAPAN: All components of this product are listed on MITI, the Ministry of International Trade Industry.

AUSTRALIA: All components of this product are listed on the AICS inventory.

16. OTHER INFORMATION

MSDS STATUS: New format.

PREPARED BY: Hazardous Materials Control Committee.

MSDS System Number: 145285

- <u>Guide to Occupational Exposure Values-1997</u>, Compiled by the American Conference of Governmental Industrial Hygienists (ACGIH).
- <u>Documentation of the Threshold Limit Values and Biological Exposure Indices</u>, Sixth Edition, 1991, Compiled by the American Conference of Governmental Industrial Hygienists, Inc. (ACGIH).
- NIOSH Pocket Guide to Chemical Hazards, U.S. Department of Health and Human Services, June 1994.
- <u>Dangerous Properties of Industrial Materials</u>, Sax, N. Irving, Van Nostrand Reinhold Co., Inc., 1984.
- <u>Patty's Industrial Hygiene and Toxicology</u>: Volume II: Toxicology, 4th ed., 1994, Patty, F. A.;
 edited by Clayton, G. D. and Clayton, F. E.: New York: John Wiley & Sons, Inc.

INFORMATION HEREIN IS GIVEN IN GOOD FAITH AS AUTHORITATIVE AND VALID; HOWEVER, NO WARRANTY, EXPRESS OR IMPLIED, CAN BE MADE.

L	EGEND:			
	ACGIH	American Conference of Governmental Industrial Hygienists	atm	atmosphere
	AICS	Australian Inventory of Chemical Substances	cm	centimeter
	CAS	Chemical Abstract Services	g, gm	gram
	CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	in	inch
	CFR	Code of Federal Regulations	kg	kilogram
	CPR	Cardiopulmonary Resuscitation	lb	pound
	DOT	Department of Transportation	m	meter
	DSL	Domestic Substances List (Canada)	mg	milligram
	ECOIN	European Core Inventory	ml, ML	milliliter
	EPA	Environmental Protection Agency	mm	millimeter
	IARC	International Agency for Research on Cancer	n.o.s.	not
	otherwise sp	pecified		
	LC ₅₀	Lethal concentration (50 percent kill)	ppb	parts per
	billion			
	LC _{Lo}	Lowest published lethal concentration	ppm	parts per
	million	•		
	LD ₅₀	Lethal dose (50 percent kill)	psia	pounds per
	square inch			
	LD _{Lo}	Lowest published lethal dose	μ, u	micron
	NFPA	National Fire Protection Association	μg	microgram
	NIOSH	National Institute for Occupational Safety and Health		
	NTP	National Toxicology Program		
	OEL	Occupational Exposure Limit		
	OSHA	Occupational Safety and Health Administration		
	PEL	Permissible Exposure Limit		
	PIN	Product Identification Number		
	RCRA	Resource Conservation and Recovery Act		
	SARA	Superfund Amendments and Reauthorization Act		
	STEL	Short Term Exposure Limit		
	TCLP	Toxic Chemicals Leachate Program		
	TDG	Transportation of Dangerous Goods		
	TLV	Threshold Limit Value		
		Toxic Substances Control Act		
	TWA	Time Weighted Average		

SECTION 17

DISCLOSURE STATEMENT

The information presented in this Material Safety Data Sheet is subject to additions and revisions and is not all-inclusive, but represented as the best information available to date. This information was drawn from recognized sources believed to be reliable. However, Plymouth Extruded Shapes, and/or the preparer of this data sheet will not be responsible for damages of any kind resulting form the use of or reliance upon such information.

	. *			
The product discussed is so	old without warranty, expressification and testing to deterr	ed or implied and a	upon conditions that pure	chasers
snan perform their own ver	Ancation and testing to deter	ume us sunadiny	tor a particular purpose.	
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,				

GCS Energy Services LLC 10845 Hwy. 1 South Shraveport, La. 71115

Facility 318-797-0087 Fax 318-797-6688

Material Profile

	Profile Number
A. Generator Information	
Company_Plymouth Extruded Shapes	Phone (270) 886-6631
Site Address _201 Commerce Court	Fax (270) 885-7034
Hopkinsville, KY 42445_	
Contact / TitleRandy Hubbard	Email
EPA #_KYD084270461 Stat	te Generating ID#SIC Code
B. Billing Information	
Company EMA	Phone (314) 785-6425
	ilva
St Louis, MO 63132	
Billing Contact Maria Tumbarelio	Fax (314) 785-6426
C. Transporter Information	
Company_TBD	EPA ID#
US DOT Proper Shipping Name: _Sodiu	m Hydroxide Solution
	#_UN1824Packing Group_II
D. General Waste Information	
Shipping Frequency: Number of Gallone 5000	Per: Month X Quarter Vear One Time Other
Shipping Method: Truck_x_ Rai	Barge
Non-hazardous Hazardous	x Waste Codes _N/A
Waste NameAlkaline Cleaner	
Process Generating WasteCleaning	for removal of draw lube from metal

GGS Energy Services LLC 10845 Hwy. 1 South Shreveport, La. 71115

Facility 318-797-0087 Fax 318-797-6688

☐ Oxidizer	Pyropheric	☐ Explosive	☐ Radioactive	
Cercinogen	infectious	Shock Sensitive	☐ Weter Reactive	
. Physical Proj	erties			
lolorDark	Liquid % _10	0 Sludge %	Oil % Solids %	Medalinisanyan
pecific Gravity	>1 Flash Po	olnt_>140 pH_>	-12.5BTUs_>2500	
ingle Phase	x or Muiti Ph	nae v		
dor: None	Mildx Stro	ng Describe		····
Chemical Composition	on (Liet all constituents (includi	ng kalogenated omanics, debri	s, and UHC's) present in any concentratio	n and aubmit
representative analys	is) TOTAL COMPOSITION N	IUST EQUAL OR EXCEED 10	s, and UHC's] present in any concentratio	tration Renne
onethuents Vater	Concentration Ru 60-90%	inge Constituent Setenium	S CORCERT	manou remage
adium Hydroxide	10-20%	Silver	<.01	
senic	<.08			
enum	<.5			
ndmium:	<.01			
hromium	<3.0			
ead	<1,0			
ercury	<.001			
all known or si submitted in co	uspected hazards have onjunction with this de	been disclosed. I furth cyment are representate	ed documents is complete and a ser certify that any analytical active of the waste to be shipped.	nd/or sample
	- Andrews		Date <u>5-23</u>	-09
Printed Name	Title Kandy Hut	BARC ENU.	Re./:	
. ARKLA USE	ONLY Stat	us: Approved / Rej	ected	
Simon	•	A 15. Th		
21 Breature		Arkia Rep	presentative	



ERNIE FLETCHER GOVERNOR

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

LAJUANA S. WILCHER SECRETARY

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
HAZARDOUS WASTE BRANCH
14 REILLY ROAD
FRANKFORT, KENTUCKY 40601
www.kchlucky.gov

April 21, 2006

Timothy J Hylla, Vice President Environmental Management Alternatives (EMA) 10627 Midwest Industrial Blvd. St. Louis, MO 63132

RE: Regulatory Interpretation of Spent Sodium Hydroxide Solution as an Effective Substitute for a Commercial Chemical Product

Plymouth Extruded Shapes

Hopkinsville, Christian County, Kentucky

EPA ID#: KYD-084-270-461

AI: 787

Dear Mr. Hylla:

The Kentucky Division of Waste Management (Division) received your request for interpretation of 401 KAR 31:010 Section 2(5) for reuse and/or recycling of spent sodium hydroxide solution on April 8, 2006 and additional supportive information on April 19, 2006 as an effective commercial chemical product. A commercial chemical product is defined at 401 KAR 31:010 Section 2(5)(a)2 as "Materials are not waste when they can be shown to be recycled by being used or reused as effective substitute(s) for the commercial products."

The Division understands that the sodium hydroxide waste is generated by taking a carbon or stainless shape up to 3" wide and 20' long and pulling (cold drawing) it through a die to actually change the shape. A lubricant is used to lubricate the piece as it passes through the die. Once the draw is complete, the product is dipped into the sodium hydroxide for cleaning purposes. Plymouth Extruded Shapes annually generates around 4,000 gallons of the waste. Plymouth Extruded Shapes plans to sent the sodium hydroxide waste to Arkla Disposal Services (Wastewater Processing Plant) in Shreveport, LA where will be use as feedstock for the wastewater plant.

Based on the information provided, we agree that the sodium hydroxide can be used as effective substitute for the commercial product of sodium hydroxide and, therefore, this sodium hydroxide is not considered a waste when used as a commercial chemical product and is not subject to the hazardous waste regulations. We understand that the reuse process will take

Kentucky

KentuckyUnbridledSpirit.com

An Equal Opportunity Employer M/F/D

Timothy J Hylla EMA / Plymouth Extruded Shapes April 21, 2006 Page 2 of 3

place in an agreement between Plymouth Extruded Shapes and Arkla Disposal Services which actually will reuse the sodium hydroxide material. Because the material is considered a product, no manifest will be required. However, the reuse of material is regulated and limited under the 401 KAR 31:010 Table 2 and 401 KAR 31:010 Section 2(3)(d).

If this material is accumulated on-site for too long, it becomes a solid waste pursuant to the speculative accumulation provisions. Specifically, the regulations state that a material is not accumulated speculatively if: 1) the material is potentially recyclabie; 2) there are feasible means of recycling the material; and 3) 75% by weight or volume of the amount of the material accumulated at the beginning of the calendar year (January 1) is either recycled or transferred to a different site for recycling during the calendar year. If 75% of the material is not recycled in the specified time frame, the material becomes a solid waste on January 1 of the following year.

Therefore, based on above provisions and interpretations, Plymouth Extruded Shapes must be able to demonstrate that:

- The sodium hydroxide is being used as cited above, and not merely capable of such
 use. (We suggest keeping documentation to support the claim that the sodium
 hydroxide is being used in a manner that is within the scope of this exclusion).
- 75% of the sodium hydroxide is being recycled under the one-year calendar provisions.

The approval determination of this Division stands as long as:

- The process is handled as proposed, in accordance with 401 KAR 31:010 Section 2(5)(a)2 for the material being recycled/reused as a commercial product.
- The sodium hydroxide is on-specification according to the Arkla Disposal Services requirements for the recycling process.
- It is used as an ingredient without prior treatment or reclamation process.

Plymouth Extruded Shapes should be aware that the event of the discontinuation of the recycling/reuse program agreement with Arkla Disposal Services or any similar program and/or off-specification, the sodium hydroxide will be considered a hazardous waste and therefore must be managed in accordance with RCRA regulations.

Also it will be required that a modification of Plymouth Extruded Shapes' hazardous waste activities registration form be made to remove sodium hydroxide as a waste stream.

Timothy J Hylla EMA / Plymouth Extruded Shapes April 21, 2006 Page 3 of 3

Should you have any questions, please contact Maridely M. Loyselle at (502) 564-6716, extension 220.

Sincerely,

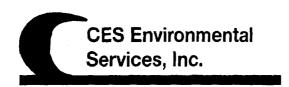
for April J. Webb P.E., Manager Hazardous Waste Branch Division of Waste Management

Tale No- Dita

AJW/mml

c: Otis Johnson, EPA Region IV
John Jump, Hazardous Waste Branch
Maridely M. Loyselle, Hazardous Waste Branch
Jan Jasper, Hazardous Waste Branch
Malinda Mays, Hazardous Waste Branch
Diana Adams, Madisonville Regional Field Office
File Room – Main File
Reading File

Mr. Randy Hubbard Environmental Manager Plymouth Extruded Shapes 201 Commerce Court, Hopkinsville, KY 42240 PA-3117



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Material / Product Approval Letter

Date 12/17/2008

Dear Corey Green

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3117

Expiration Date 12/17/2010

Producer: Valero Refining Co Texas

Address: 9701 Manchester

Houston, TX 77012-2408

Material / Product Information

Name of Material / Product Sulfidic caustic

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Gas scrubber

Color: brown

Odor: sulfide

pH:

Physical State:

Incompatibilities: acids, oxidizers
Safety Related Data/Special Handling:

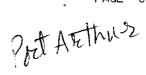
level c

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.





Phone: (713) 676- TCEQ Industrial	, Houston, TX 77021 1460 Fax: Solid Waste Permit N TXD008950461 ISWI	(713) 676-1676 No: 30948	2420 S. Gulf Phone: (713	fway Drive, I 1) 676-1460	Port Arthur, TX Fax: (7 00079307 ISWR	77641 13) 676-1676
SECTION 1: Mai	erial Producer Infor					
Company:	Valero Houston R	Refinery				
Address:	9701 Manchester					
City, State, Zip:	Houston, TX 770	12-2408			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Contact:	Cory Green		Title:	Environi	nental Engineer	
Phone No:	713-923-3378		Fax No:	713-923-		·
24/hr Phone:	CES: 713-676-14	160			W. W	
U.S. EPA I.D. No:						
State I.D.			SIC Code:			
CROWOLA BUIL						
	ng Information -					
Company:	Evergreen Disposal	Solutions inc.				
Address:	P.O. Box 58198					
City, State, Zip:	Webster, TX 77598					
Contact:	Craig Byard	Title:	President			
Phone No:	281-910-0877	Fax No):			
~~~~~~~						•
SECTION 3: Gene	eral Description of th	e Material / Product				
	Product: Sulfidic Can n of Process General	austic ting or Producing the M	laterial / Product	Gas Scrubb	er	
Physical State:	∠iquid	☐ Sludge	Powder			
	Solid Solid	Filter Cake	Combinati	ion		
Color: Brown	•	Odor: <u>Sulfide</u>				
Specific Gravity (w	ater=1): <u>1.025</u>	Density: 9-10 lbs/gal	I			
Does this material c	contain any total phe	nolic compounds? 🔲 Y	les 🛭 No			
Does this material o	ontain any para sub	stituted phenolic compo	ounds? 🗌 Yes	⊠ No		
Layers:	Single-phase	Multi-phase	ε			
Container Type:	Drum	☐ Tote	⊠ Truck		Other (explain)	•
Container Size:	<u> </u>		<u>5000 q</u>			
Frequency:	☐ Weekly	Monthly	Quarterly	, 🖂	Vearly	·
Number of Units (c	ontainers): 70	Other:				
•		1. 1. +				
		trodud			B 1011000 DC	11 (010.11
Proper U.S. DOT S	hipping Name:	RQ, Corrosive liq	uras, n.o.s. (sodiu	m nydroxide)	, 8, UN 1760, PG	u (Sumdic
		Caustic)				
Class: 8	UN/N	***************************************	PG: P	G-II	RQ:	100 🖯
	±				4-	

Flash Point	pН	N/A	N/A	Solids
>140	12.5-14.0			<2%
Oil&Grease	TOC	Zinc	Copper	Nickel
<1.0mg/l	>1500mg/l	Omg/I	Omg/t	Omg/l

## SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Sodium Hydroxide	1-20	%
Sulfide	0.10-3.00	%
Oil and residual hydrocarbons	0-1	%
Dirt	0-2	%
Water	80-99	%

### SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain. Level C

### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. CES Analysis

#### **SECTION 7: Incompatibilities**

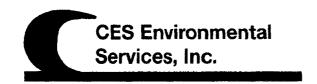
Authorized Signature:

Please list all incompatibilities (if any): acids, oxidizers

### **SECTION 8: Material Producer's Certification**

The information contained herein is based on 🛛 generator knowledge and/or 🖾 analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all majerials described by this document. ____ Date: <u>/2 -</u> /7 - 2008

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager: Pollwill to	
Date: 12-17-08 Approved Rejected	
Approval Number: 3117	



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

Date: 06/19/08

To: Gary Brauckman

Cc: Keli Lofton, Gary Peterson, Prabhaker

From: Miles Root Lab Memo: 08-110

Subject: Valero Evaluation 0608-43

A sample of sulfidic caustic from Valero, Houston has been evaluated for processing at CES. This sample is evaluation 0608-43. Overall, this is a very weak sulfidic caustic that may be processed at CES to recovery the small amount of sulfides.

A composite of a top, middle and bottom sample was prepared and analyzed. This sample is a very weak caustic with corresponding weak sulfide content, and no mercaptan sulfur. Our potential treatment would consist of acidification to recovery the hydrogen sulfide. This would be run in our SIB tank system. Since we will produce very little hydrogen sulfide from this stream for the work involved we need to make sure we are covering our costs for disposal. The table below summarizes the analytical work.

Valero Eval 0608-43				
Specific Gravity	1.025			
NaOH, wt%	1.2			
Sulfide, as S, wt%	0.15			
RSH, as S, wt%	0			

used as feed for wast

# **Gary Brauckman**

From:

Miles Root

Sent:

Monday; June 23, 2008 10:56 AM

To:

Gary Brauckman

Subject:

Valero pH

Valero composite pH on evaluation 0608-43 is 12.5.

Miles Root Laboratory Research and Development Specialist CES Environmental Services, Inc. 4904 Griggs Road Houston, TX 77021

Cell: 832-607-6678 Fax: 713-748-8664

# **Gary Brauckman**

From:

Miles Root

Sent:

Wednesday, June 18, 2008 2:42 PM

To:

Gary Brauckman

Subject:

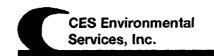
Valero

SG = 1.025 NaOH, wt% = 1.2 Sulfides, as S, wt% = 0.15 RSH, wt% = 0

This is a very weak sulfidic caustic stream.

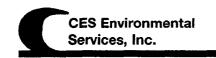
Miles Root
Laboratory Research and Development Specialist
CES Environmental Services, Inc.
4904 Griggs Road
Houston, TX 77021
Cell: 832-607-6678

Cell: 832-607-6678 Fax: 713-748-8664



# PROCESS FACILITY INFORMATION (CES USE ONLY!!)

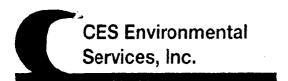
1.	Base Pricing (including freight):
	40 cents per gallon Trans \$70.00 per hour plus Fuel Surcharge
2.	Contamination Limits (maximum limit before surcharges apply):
	none
3.	Surcharge Pricing:
	none
4.	Special Testing Requirements:
	Sulfidic Caustic Evaluation
5.	Treatment and Handling Protocol:
	Process through Reactor Vessel for the recovery of sulfur compounds in the production of NasH
	feedstock for Nastt
	7
Ì	
6.	Treated Wastewater Discharge Subcategory:
[	1/4
	Subcategory A Subcategory B Subcategory C
- 1	



# PROCESS FACILITY INFORMATION (CES USE ONLY!!)

NA Product Rec			· · · · · · · · · · · · · · · · · · ·	 	<del></del>	
·						
Management for Prod	ict Recovered/Recy	cled (if applica	ıble);			
	uct Recovered/Recy	cled (if applica	able);			
	act Recovered/Recy	cled (if applica	able);			
Management for Prod NasH	ict Recovered/Recy	cled (if applica	able);			

PA-3126



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Material / Product Approval Letter

Date 12/29/2008

Dear Monica Soileau

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3126

Expiration Date 12/29/2010

**Producer:** Conoco Phillips (Westlake LA)

Address: 2200 Old Spanish Trail

Westlake, LA 70669

## Material / Product Information

Name of Material / Product Spent sulfuric acid

**Container Type:** 

### Detailed Description of Process Generating or Producing the Material / Product:

Off-spec material from manufacturing process

off spee material from manafacturing process

Color: dark red Odor: slight pungent pH: 0-1

**Physical State:** 

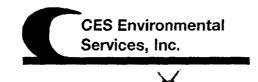
Incompatibilities: Metals, oxidizing agents Safety Related Data/Special Handling:

Chemical suit, rubber gloves, rubber boots, safety goggles, face shield, hard hat

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road, F Phone: (713) 676-14 TCEQ Industrial So		CES Environmental Services – Port Arthur Facility 2420 S. Gulfway Drive, Pr.:t Arthur, TX 77641  Phone: (713) 676-1460 Fax: (713) 676-1676  U.S. EPA ID No: TXR000079307 ISWR No: 88585				
SECTION 1: Mater	rial Producer Information					
Company:	ConocoPhillips					
Address:	2200 Old Spanish Trail					
City, State, Zip:	Westlake, LA 70669					
Contact:	Cheryl Manuel	Title:				
Phone No:	337-491-5188	Fax No:				
24/hr Phone:	337-491-5188	143.1101				
U.S. EPA I.D. No:	NA					
State I.D.	NA	SIC Code: NA				
State L.D.	1111	510 0000				
CECTION 4. Dillia	g Information – 🔀 Same as Above					
	g Information – 🖂 Same as Above					
Company:						
Address:						
City, State, Zip:	Ft. 1.1					
Contact:	Title:					
Phone No:	Fax No:	· .				
Name of Material / I	ral Description of the Material / Product  Product: Spent Sufluric Acid  n of Process Generating or Producing the Mate	erial / Product: Off-spec material from manufacturing process				
Physical State:		Powder Combination				
Color: Dark 12	Odor: Slight Pungent					
Specific Gravity (wa	<b>Density:</b> <u>1.84</u> <b>Density:</b> <u>15</u> lbs/gal					
	ontain any total phenolic compounds?   Yes					
Does this material co	ontain any para substituted phenolic compound	ds? 🗌 Yes 🛛 No				
Layers:	⊠ Single-phase ☐ Multi-phase					
Container Type:	☐ Drum ☐ Tote 🖂	Truck				
Container Size:		4500				
Container Size.						
Frequency: Number of Units (co	Weekly   Monthly   ontainers): 2 Other:	] Quarterly   Yearly				
Proper U.S. DOT Sh	Proper U.S. DOT Shipping Name: RQ, Sulfuric Acid, Spent, 8, UN1832, PG II					
Class: 8	UN/NA: UN1832	PG: PG II RQ: 1000				

Flash Point	pН	N/A	N/A	Solids
>150	<u>0-1</u>			0%
Oil&Grease	TOC	Zinc	Copper	Nickel
<u>NA</u> mg/l	NAmg/l	<u>NA</u> mg/I	NAmg/I	NAmg/I

# SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Sulfuric Acid	90-92	%
Water	8-10	%

### **SECTION 5: Safety Related Data**

If the handling of this material / product requires the use of special protective equipment, please explain. Chemical Suit, Rubber Gloves, Rubber Boots, Safety Goggles, Face Shield, Hard Hat

## **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.  $\underline{MSDS}$ 

# **SECTION 7: Incompatibilities**

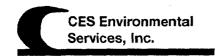
Please list all incompatibilities (if any):

Metals, Oxidizing Agents

# **SECTION 8: Material Producer's Certification**

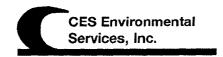
The information contained herein is based on 🛛 generator knowledge and/or 🗌 analytical data. I hereby certify that the above	e and
attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or w	villful
omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the mat	erials
tested are representative of all materials described by this document.	

Authorized Signature:	Date: 12/22/08
Printed Name/Title: NA-Product	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager: Lower Land	
Date: 12-29-08 Approved Rejected	
Approval Number: 3126	



# PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	Pay ConocoPhillips \$50.00 per ton
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
	Nla
	Special Testing Requirements:
	Test marketal by making a test run with sultidiz
	doner not front to the log after each reaction. specific growth
	Test auntertal by making a test run with sulfidize construction to easier standard reaction occurs and that oill done not float to the top after each reaction. Specific growth should be 1.81 and have a dark red color.
5.	Treatment and Handling Protocol:
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



# PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable);

# Material Safety Data Sheet

Sulfuric acid 90-98%

# ACC# 22350

# Section 1 - Chemical Product and Company Identification

MSDS Name: Sulfuric acid 90-98%

Catalog Numbers: AC124640000, AC124640010, AC124640011, AC124640025, AC124640026, AC124645000, AC124645001, AC133610000, AC133610011, AC133610025, AC133610026, AC133610051, AC302070000, AC302070010, AC302070011, AC302070025, AC302070026, AC388270000, AC424520000, AC424520026, AC424525001, 13361-0010, 42452-0025, 42452-5000, A298-212, A298N119, A300-212, A300-225LB, A300-500, A300-500LC, A300-612GAL, A300-700LB, A300C-212, A300C-212002, A300C-212003, A300C-212LC, A300C212004, A300C212005, A300C212006, A300C212007, A300C212008, A300C212009, A300C212010, A300J-500, A300P-500, A300S-212, A300S-212LC, A300S-500, A300SI-212, A468-1, A468-2, A468-250, A468-500, A484-212, A510-212, A510-500, A510SK-212, NC9008405, NC9825433, S71211SC, S71211SCMF, S79200, SA174-212, SA174-4, SA176-4, SA196-500

**Synonyms:** Hydrogen sulfate; Oil of vitriol; Vitriol brown oil; Mattling acid; Battery acid; Sulphuric acid; Electrolyte acid; Dihydrogen sulfate; Spirit of sulfur; Chamber acid.

# **Company Identification:**

Fisher Scientific 1 Reagent Lane Fair Lawn, NJ 07410

For information, call: 201-796-7100 Emergency Number: 201-796-7100

For CHEMTREC assistance, call: 800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

# Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7664-93-9	Sulfuric acid	90-98	231-639-5

# Section 3 - Hazards Identification

# **EMERGENCY OVERVIEW**

Appearance: clear colorless to yellow liquid.

**Danger!** Causes eye and skin burns. Causes digestive and respiratory tract burns. May be fatal if mist inhaled. Strong inorganic acid mists containing sulfuric acid may cause cancer. Concentrated sulfuric acid reacts violently with water and many other substances under certain conditions. May cause lung damage. Hygroscopic (absorbs moisture from the air). Corrosive to metal.

Target Organs: Lungs, teeth, eyes, skin.

#### **Potential Health Effects**

**Eye:** Causes severe eye burns. May cause irreversible eye injury. May cause blindness. May cause permanent corneal opacification. The severity of injury depends on the concentration of the solution and the duration of exposure.

**Skin:** Causes skin burns. The severity of injury depends on the concentration of the solution and the duration of exposure.

**Ingestion:** May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns.

**Inhalation:** May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Because its vapor pressure is negligible, it exists in the air only as a mist or spray. Exposure may impair lung function and cause mucostasis (reduced mucous clearance).

**Chronic:** Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated inhalation may cause nosebleeds, nasal congestion, erosion of the teeth, perforation of the nasal septum, chest pain and bronchitis. Prolonged or repeated eye contact may cause conjunctivitis. Effects may be delayed. Workers chronically exposed to sulfuric acid mists may show various lesions of the skin, tracheobronchitis, stomatitis, conjunctivitis, or gastritis. Occupational exposure to strong inorganic acid mists containing sulfuric acid is carcinogenic to humans.

## Section 4 - First Aid Measures

**Eyes:** In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid immediately.

**Skin:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.

**Ingestion:** If swallowed, do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

**Inhalation:** POISON material. If inhaled, get medical aid immediately. Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Notes to Physician:** Monitor arterial blood gases, chest x-ray, and pulmonary function tests if respiratory tract irritation or respiratory depression is evident. Treat dermal irritation or burns with standard topical therapy. Effects may be delayed. Do NOT use sodium bicarbonate in an attempt to neutralize the acid.

# Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Use water spray to keep fire-exposed containers cool. Substance is noncombustible. Contact with water can cause violent liberation of heat and splattering of the material. Contact with metals may evolve flammable hydrogen gas. Runoff from fire control or dilution water may cause pollution. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Strong dehydrating agent, which may cause ignition of finely divided materials on contact. Oxides of sulfur may be produced in fire.

**Extinguishing Media:** Use extinguishing media most appropriate for the surrounding fire. Do NOT get water inside containers. If water is used, care should be taken, since it can generate heat and cause spattering if applied directly to sulfuric acid.

Flash Point: Not applicable.

**Autoignition Temperature:** Not available. **Explosion Limits, Lower:** Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 3; Flammability: 0; Instability: 2; Special Hazard: -W-

# Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Carefully scoop up and place into appropriate disposal container. Provide ventilation. Do not get water inside containers. Cover with dry earth, dry sand, or other non-combustible material followed with plastic sheet to minimize spreading and contact with water.

# Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not allow water to get into the container because of violent reaction. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Discard contaminated shoes. Use only with adequate ventilation. Do not breathe spray or mist. Do not use with metal spatula or other metal items. Inform laundry personnel of contaminant's hazards.

**Storage:** Do not store near combustible materials. Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Do not store near alkaline substances. Store protected from moisture. Ideally, sulfuric acid should be stored in isolation from all other chemicals in an approved acid or corrosives safety cabinet.

# Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use a corrosion-resistant ventilation system.

**Exposure Limits** 

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sulfuric acid	0.2 mg/m3 TWA (thoracic fraction)	1 mg/m3 TWA 15 mg/m3 IDLH	1 mg/m3 TWA

OSHA Vacated PELs: Sulfuric acid: 1 mg/m3 TWA

**Personal Protective Equipment** 

**Eyes:** Wear chemical splash goggles and face shield.

**Skin:** Wear neoprene gloves, apron, and/or clothing. Viton gloves are recommended.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

# Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: oily - clear colorless to yellow

Odor: odorless pH: 0.3 (1N solution)

Vapor Pressure: < 0.001 mm Hg @ 20 deg C

Vapor Density: 3.38 (air=1)

Evaporation Rate: Slower than ether.

Viscosity: 21 mPas @ 25 C Boiling Point: 290 - 338 deg C Freezing/Melting Point:10 deg C **Decomposition Temperature:**340 deg C Solubility: Soluble with much heat Specific Gravity/Density:1.84 Molecular Formula: H2SO4 Molecular Weight: 98.07

# Section 10 - Stability and Reactivity

Chemical Stability: Sulfuric acid reacts vigorously, violently or explosively with many organic and inorganic chemicals and with water.

Conditions to Avoid: Excess heat, exposure to moist air or water, Note: Use great caution in mixing with water due to heat evolution that causes explosive spattering. Always add the acid to water, never the reverse..

Incompatibilities with Other Materials: Metals, oxidizing agents, reducing agents, bases, acrylonitrile, chlorates, finely powdered metals, nitrates, perchlorates, permanganates, epichlorohydrin, aniline, carbides, fulminates, picrates, organic materials, flammable liquids.

Hazardous Decomposition Products: Oxides of sulfur.

Hazardous Polymerization: Has not been reported.

# Section 11 - Toxicological Information

RTECS#:

CAS# 7664-93-9: WS5600000

LD50/LC50: CAS# 7664-93-9:

> Draize test, rabbit, eye: 250 ug Severe; Inhalation, mouse: LC50 = 320 mg/m3/2H; Inhalation, mouse: LC50 = 320 mg/m3; Inhalation, rat: LC50 = 510 mg/m3/2H; Inhalation, rat: LC50 = 510 mg/m3;

Oral, rat: LD50 = 2140 mg/kg;

### Carcinogenicity:

CAS# 7664-93-9:

- ACGIH: A2 Suspected Human Carcinogen (contained in strong inorganic acid mists)
- California: carcinogen, initial date 3/14/03 (listed as Strong inorganic acid mists containing sulfuric acid).
- NTP: Known carcinogen (listed as Strong inorganic acid mists containing s).
- IARC: Group 1 carcinogen

**Epidemiology:** Workers exposed to industrial sulfuric acid mist showed a statistical increase in laryngeal cancer. This suggests a possible relationship between carcinogenesis and inhalation of sulfuric acid mist.

**Teratogenicity:** Sulfuric acid was not teratogenic in mice and rabbits, but was slightly embryotoxic in rabbits (a minor, rare skeletal variation). The animals were exposed to 5 and 20 mg/m3 for 7 hr/day throughout pregnancy. Slight maternal toxicity was present at the highest dose in both species.

Reproductive Effects: No information found

**Mutagenicity:** There are no mutagenicity studies specifically of sulfuric acid. However, there are established effects of reduced pH in mutagenicity testing, as would be caused by sulfuric acid. These effects are an artifact of low pH and are not necessarily due to biological effects of sulfuric acid itself.

Neurotoxicity: No information found

Other Studies:

# Section 12 - Ecological Information

Ecotoxicity: Fish: Bluegill/Sunfish: 49 mg/L; 48Hr; TLm (tap water @ 20C)

Fish: Bluegill/Sunfish: 24.5 ppm; 48Hr; TLm (fresh water)

# Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.
RCRA U-Series: None listed.

# Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	SULFURIC ACID	SULFURIC ACID
Hazard Class:	8	8
UN Number:	UN1830	UN1830
Packing Group:	II	II

# Section 15 - Regulatory Information

## **US FEDERAL**

### **TSCA**

CAS# 7664-93-9 is listed on the TSCA inventory.

**Health & Safety Reporting List** 

None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules** 

None of the chemicals in this product are under a Chemical Test Rule.

#### Section 12b

None of the chemicals are listed under TSCA Section 12b.

### **TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

# **CERCLA Hazardous Substances and corresponding RQs**

CAS# 7664-93-9: 1000 lb final RQ; 454 kg final RQ

### SARA Section 302 Extremely Hazardous Substances

CAS# 7664-93-9: 1000 lb TPQ

#### **SARA Codes**

CAS # 7664-93-9: immediate, delayed, reactive.

#### Section 313

This material contains Sulfuric acid (CAS# 7664-93-9, 90-98%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

#### Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

### Clean Water Act:

CAS# 7664-93-9 is listed as a Hazardous Substance under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

#### OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

#### STATE

CAS# 7664-93-9 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

### California Prop 65

# The following statement(s) is(are) made in order to comply with the California Safe Drinking Water Act:

WARNING: This product contains Sulfuric acid, listed as `Strong inorganic acid mists contain', a chemical known to the state of California to cause cancer.

California No Significant Risk Level: None of the chemicals in this product are listed.

# **European/International Regulations**

# **European Labeling in Accordance with EC Directives Hazard Symbols:**

С

## **Risk Phrases:**

R 35 Causes severe burns.

### Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 30 Never add water to this product.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

#### WGK (Water Danger/Protection)

CAS# 7664-93-9: 2

# Canada - DSL/NDSL

CAS# 7664-93-9 is listed on Canada's DSL List.

#### Canada - WHMIS

This product has a WHMIS classification of D2A, D1A, E.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

# **Canadian Ingredient Disclosure List**

CAS# 7664-93-9 is listed on the Canadian Ingredient Disclosure List.

# Section 16 - Additional Information

**MSDS Creation Date:** 4/22/1999 **Revision #15 Date:** 2/13/2008

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.



# **Material / Product Approval Letter**

Date 1/8/2009

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3135

Expiration Date 1/8/2011

**Producer:** RasGas

Populari Populari

Address: PO BOX 24200

DOHA - QATAR,

Material / Product Information

Name of Material / Product Sulfidic Caustic Solution

Container Type:

Ship

## Detailed Description of Process Generating or Producing the Material / Product:

Processing of fuels using caustic to remove sulfides

Color: brown to red

Odor: sulfur / H2S smell

**pH:** 6-11

**Physical State:** 

Incompatibilities: Metals, Strong Acids Safety Related Data/Special Handling:

Chemical Suit, Rubber Gloves, Rubber boots, Safety Goggles, Face Shield, Hard Hat

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



## CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900

ned approved in Dystem.
P# 3135-PA

SECTION 1: Materi	ial Producer Information	<u>1</u>					
Company :	RasGas						
Address :	PO BOX 24200 PO	BOX 24200					
City, State, Zip:	DOHA - QATAR			Michigan No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Market No. / Mar			
Contact :				Title:			
Phone No:				Fax:			
24 / HR Phone :							
U.S EPA I.D No:							
State I.D:				SIC Code			
SECTION 2: Billing	Information						
Company :	RasGas						
Address :	PO BOX 24200 PO	BOX 24200		_:_			
City, State, Zip:	DOHA - QATAR						,
Contact :			v	Title:			
Phone No:				Fax:			
SECTION 3: General	al Description of the Ma	aterial / Product					
Name of Mateira	I / Product : Sulfidic C	austic Solution					
Detailed Descrip	tion of the Process 6	Senerating or Produc	cing the M	laterial / Product	:		
-	ls using caustic to rem	_	_			•	
Physical State :	Liquid	Sludge		Powder			
	Solid	Filter Cake	ð	Combination			
Color :		brown to red	Odor	:		sulfur / H2S sm	ell
Specific Gravity	(Water=1) :	1.03	Dens	ity:		8.6-9.2	lbs / gal
Does this material	contain any total pheno	lic compounds?	Yes	<b>✓</b> No			
Does this material	contain any para subst	ituted phenolic compo	unds?	Yes	✓ No		
Layers :	Single-Phas	Multi-Phas	se				
Container Type :	Drum	Tote 📑	Truck	✓ Other (expl	ain)	Ship	
Container Size :	340,000 gallon:						
Number Of Units	1						
Proper U.S. DOT	Shipping Name :			Sodium Hydroxide	e Solution		
Class: 8	UN/N	MA: UN1824		PG: II		RO	•

Flash Point 7150	p <b>H</b> 6-11	Reactive Sulfides	Reactive Cyanides  1  mg/l	Solids  Ø
Oil and Grease	тос	Zinc	Copper	Nickel
mg/l	mg/l	mg/l	mg/l	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Sodium Hydroxide	8-10	%
Water	90-92	%
SECTION 5: Safety Related Data		
f the handling of this material / product requires the use of special protective	equipment, please explain.	
Chemical Suit, Rubber Gloves, Rubber boots, Safety Goggles, Face Shield, Hard H		
,		
SECTION 6: Attached Supporting Documents		
	£ the meets wist / muselvest mustile	
_ist all documents, notes, data, and/or analysis attached to this form as part o MSDS	r the material / product profile.	
VISDS	-	
SECTION 7: Incompatibilities		
•		
Please list all incompatibilities (if any):		
Metals, Strong Acids		
SECTION 8: Material Producer's Certification		
The information contained herein is based on ☑ generator knowledge and/o	r analytical data. I hereby ceri	itv that th
above and attached description is complete and accurate to the best of my kn		
deliberate or willful omissions of composition properties exist and that all kno		

Printed Name / Title :	/

Authorized Signature : _____ Date :

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Process Facility Information:

Compliance Officer

Date: 1-8-09

Status :

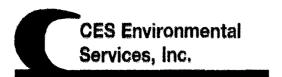
Approved

disclosed. I certify that the materials tested are representative of all materials described by this document.

Rejected

Approval Number:

PA-3135



# Waste Pre-Acceptance/Approval Letter

Date 1/15/2009

Dear Randy Woolvine

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3136

Expiration Date 1/8/2011

Generator: Citgo Refinery
Address: 4401 LA Hwy 108

Lake Charles, LA 70665

**Waste Information** 

Name of Waste: Phenolic Caustic Solution

TCEQ Waste Code #: PRODUCT

**Container Type:** 

Barge

**Detailed Description of Process Generating Waste:** Processing of fuels using caustic to remove sulfides

Color: red to brown

Odor: slight to medium

pH: 10.5-12.5

Physical State:

Incompatibilities: Metals, Oxidizing Agents Safety Related Data/Special Handling:

Chemical Suits, Rubber Gloves, Rubber Boots, Safety Goggles, Face Shield, Hard Hat

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

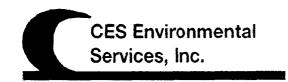
SECTION 1: Gener	ator Informati	on		ocamen.										
Company:	Citgo Refine	ery			27/			-70-7 <b>0</b> -0-1			**************************************			
Address:	4401 LA Hw	y 108 4	1401 LA	Hwy 1	08		**********	B. Arrest Later C. Allera C. L. M.						
City, State, Zip:	Lake Charle	s LA 70	665											
Contact:	Mike Robisc	n						Title :						
Phone No:	(337) 708-63	344						Fax:						
24 / HR Phone:											Make of Part Street Co. 11.			H. Hamily of State Control of the Co
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Detailed Descript	tion of the P	rocess	Genera	iting W	aste:									
Processing of fuel	s using caust	ic to rer	nove st	ılfides										
Physical State :	<b>⊘</b> Liqui	d		☐ Slu	idge		Po	wder						
	Solid	l		Fill	er Cake		Co	mbinatio	n					
Calor :			red	to brow	n	Dd	or:		100000		sligh	t to med	dium	account of the second
Specific Gravity (	Water=1) :			1-1.2		Dei	nsity :		*****		9.5-1	0		bs / gal
Does this material (	contain any to	tal phen	olic con	npound	9?	<b>√</b> Ye	S	□ No						
Does this material o	contain any pa	ıra subs	ituted p	henolio	compo	unds?	Ĺ	Yes		<b>√</b> No				
is the Waste subjec	t to the benze	ne wast	e opera	tion NE	SHAP?	40 CFR F	³ art 61,	Subpart	FF)		Yes	V	No	
2812 2813 2	816 2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861 2865 2	869 2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511
Layers :	<b>Single</b>	le-Phas		■ Mu	lti-Pha	se								
Container Type :	Drum	1 5	) <b>T</b>	ote		Truck	V	Other (	expla	in)	nga e <del>yil Masalan</del> a	Barg	je	
Container Size :	340K gal	lons												
Number Of Units	: 2	- Continue Total												
Is this a USEPA "H	lazardous Wa	ste" pe	140 CF	R 261.3	17	Tan 1	Yes	Y N	D					
If "Yes", then ple	ase complete,	sign and	date the	underl	ying Haz	ardous Co	onstituer	nts Form	attache	d hereto				
If "Yes", is it:	D001	D002		D003										

Characteristic for Toxic	Metals: D004	D005	poos	□ D00	•			
	□ D008	☐ D009	D010	DO1:	1			
Characteristics for Toxi	c Organics: D012 thi	u D043 (pleas	e list all that ap	oly)				A Partie Control of the Control of t
Is this an "F" or "K" List	ed waste or mixed v	vith one?	☐ Yes 🔽	No				
If "Yes", then please	list ALL applicable (	odes:				and the second section of	TTTCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	
Is this a commercial pro 261.33(e) or (f)?	educt or spill cleanup	that would ca	arry a "U" or "P"	waste co	ode under 40 C	CFR [] Yes	s ØN	lo
If "Yes", then please	ist ALL applicable	codes:			egi kalid (se dada um manara manas manara). Kali kalid pilat manara manara manara manara banara manara banara m			
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N/A mg	/I N/A	mg/l	N/An	ıg/l	N/A	mg/l	N/A	mg/l
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I ne materiai	/ product consists Sodium Hyd		ng materials		Kanges	are acceptat 3-12	)(e   C	or % %
	Phenol				7,5	00 -250,000	. 6.	ng/l
	Water					88-97		%
								l
SECTION 5: Safety Related	l Data							
If the handling of this w		se of special	protective equi	oment, p	olease explain	l.		
Chemical Suits, Rubber (								
SECTION 6: Attached Supp	parting Documents	Beckness.						
List all documents, note	es, data, and/or ana	lysis attached	d to this form a	part of	the waste ap	proval packa	ge.	
MSDS								
SECTION 7: Incompatibiliti		B. 1144 V. 104 MA						
Please list all incompati	bilities (if any):							
Metals, Oxidizing Agents								
aration a a		41						
SECTION 8: Generator's Ki	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		tion linear balan	1818 <i>t</i>	NOT BESEAR	MED board		
Laboratory analysis of t following generators kn		e cnaracterisi	lics, listed belo	N, WAS	NOI PERFOR	MED Dased	upon tne	
TCLP Metals :	X							
TCLP Volatilies :	<u>x</u>							
TCLP Semi-Volatiles :	X							
Reactivity :	<u>x</u>							
•	••		2					

Corra	atath:
Ignita	bility: <u>x</u>
THE PERSON NAMED IN	ON 9: Waste Receipt Classification Under 40 CFR 437
is this	material a wastewater or wastewater sludge?
If 'YES	S', complete this section
PLEA	SE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
Matal	s Subcategory: Subpart A
	Spent electroplating baths and/or sludges
	Metal finishing rinse water and sludges
	Chromate wastes
	Air pollution control blow down water and sludges
	Spent anodizing solutions
	Incineration wastewaters
	Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phospha
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
مناء د	wheateness Subnest B
	ubcategory: Subpart B Used oils
Trocured .	Oil-water emulsions or mixtures
	Lubricants
	Coolants
-4000	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products
	Oil spill clean-up
	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
	Off-specification fuels
Tribron.	Underground storage remediation wastes
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
Ouern	ing Cribonth rome Erchmark C
	ics Subcategory Subpart C Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bering wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesive and/or epoxies formulation
	Wastewater from organic chemical product operations

	Tank clean-out from organic, non-petroleum sources							
(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste short	uld be classified in the oils subcategory						
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pol excess of the values listed below, the waste should be classified in the metals s	lutants listed below in concentrations in subcategory						
	Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L							
(3)	3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.							
	☐ Metals Subcatego							
	☐ Oils Subcatego							
	☐ Organics Subcategory							
SE	CTION 10: Additional Instruction							
Chr con	ou cannot determine the correct subcategory in Section 9 and you did not furnist romium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercicentrations. This will be prior to acceptance. The generator will be responsible for the contractions. The generator will be responsible for the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of t	cial laboratory a sample to determine these						
The abo	e information contained herein is based on generator knowledge and/operator and description is complete and accurate to the best of my knowledge and attached description is complete and accurate to the best of my knowledge or willful omissions of composition properties exist and that all knowledge is contained and the closed. I certify that the materials tested are representative of all materials	owledge and ability to determine that no own or suspected hazards have been						
Au	thorized Signature:	Date:						
Pri	nted Name / Title : /	m						
CE	ES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information :						
Ca	mpliance Officer: Prabhakar Thangudu							
Da	te: 1/8/2009 Status: Approved Rejected							
Αp								

PA-3137



# Material / Product Approval Letter

Date 1/8/2009

Dear

Thank you for choosing CES Environmental Services. Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3135

Expiration Date 1/8/2011

Producer: RasGas

Address: PO BOX 24200

DOHA - QATAR,

Material / Product Information

Name of Material / Product Sulfidic Caustic Solution

Container Type:

Ship

Detailed Description of Process Generating or Producing the Material / Product:

Processing of fuels using caustic to remove sulfides

Trocossing of twell using whishe to remove building

Color: brown to red Odor: sulfur / H2S smell

pH: 6-11

**Physical State:** 

Incompatibilities: Metals, Strong Acids Safety Related Data/Special Handling:

Chemical Suit, Rubber Gloves, Rubber boots, Safety Goggles, Face Shield, Hard Hat

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



## **CES Environmental** Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900

nuclappioned ex Dysum. P# 3135-PA

SECTION 1: Mater	ial Producer Informatio	n			
Company:	RasGas				
Address :	PO BOX 24200 PO	BOX 24200			
City, State, Zip :	DOHA - QATAR				
Contact :			Title :		
Phone No:			Fax:		
24 / HR Phone :			por a para colo colo colo colo colo colo colo col		
U.S EPA I.D No :					
State I.D :			SIC Code	THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S	
SECTION 2: Billing	g Information				
Company :	RasGas				
Address :	PO BOX 24200 PO	BOX 24200			-
City, State, Zip:	DOHA - QATAR			programme trade it as an one companies. Market 1939 to 1931 to 1951 to 1951 to 1951 to 1951 to 1951 to 1951 to	
Contact :			Title :		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
Phone No :			Fax:		(94.98)
SECTION 3: Gener	al Description of the M	aterial / Product			
Name of Mateira	I / Product : Sulfidic C	austic Solution			
Detailed Descrip	tion of the Process (	Senerating or Produc	ing the Material / Produc	<b>.</b>	
•	ls using caustic to rem	_	<b>ge</b>	•	
Physical State :	Liquid	Sludge	Powder		
	Solid	Filter Cake	Combination		
Color :	B 4-4811. Alexandria	brown to red	Odor:	sulfur / H2S s	smell
Specific Gravity	(Water=1) :	1.03	Density:	8.6-9.2	lbs / gal
Does this material	contain any total pheno	olic compounds?	Yes V No		
Does this material	contain any para subst	ituted phenolic compou	inds? Yes	<b>√</b> No	
Layers :	✓ Single-Phas	Multi-Phas	e		
Container Type:	_ Drum _	Tote	Truck   Other (exp	olain) Shi	p
Container Size :	340,000 gallon:				
Number Of Units		•			
Proper U.S. DOT	Shipping Name :		Sodium Hydroxid	de Solution	
Class: 8	UN/I	<b>NA</b> : UN1824	PG: II	F	RQ :

Flash Point 7150	рН 6-11	Reactive Sulfides 7 100 mg/l	Reactive Cyanides	Solids  0 %
Oil and Grease	TOC	Zinc	Copper	Nickel
mg/l	/ mg/l	mg/l	mg/l	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Sodium Hydroxide	8-10	%
Water	90-92	%

**SECTION 5: Safety Related Data** 

If the handling of this material / product requires the use of special protective equipment, please explain.

Chemical Suit, Rubber Gloves, Rubber boots, Safety Goggles, Face Shield, Hard Hat

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. MSDS

**SECTION 7: Incompatibilities** 

Please list all incompatibilities (if any):

Metals, Strong Acids

Approval Number:

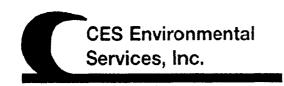
**SECTION 8: Material Producer's Certification** 

The information contained herein is based on generator knowledge and/or analytical data. I hereby cerity that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature :		Date:			
Printed Name / Title :/	11.00 · 10 · 10 · 10 · 10 · 10 · 10 · 10				
CES USE ONLY (DO NOT W		Process Facility Information :			
Compliance Officer:	letur	Blight			
Date: 1-8-64	Status :	Approved )	Rejected		

PA-3135

2



# **Material / Product Approval Letter**

Date 1/8/2009

Dear Randy Woolvine

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3136

Expiration Date 1/8/2011

Producer: Citgo Refinery

Address: 4401 LA Hwy 108

Lake Charles, LA 70665

### Material / Product Information

Name of Material / Product Phenolic Caustic Solution

Container Type:

Barge

## Detailed Description of Process Generating or Producing the Material / Product:

Processing of fuels using caustic to remove sulfides

Color: red to brown

Odor: slight to medium

**pH**: 10.5-12.5

Physical State:

Incompatibilities: Metals, Oxidizing Agents Safety Related Data/Special Handling:

Chemical Suits, Rubber Gloves, Rubber Boots, Safety Goggles, Face Shield, Hard Hat

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



# CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

Need Appro	min
System	
P# 31518	PA

SECTION 1: Mater	ial Producer Information					
Company:	Citgo Refinery					
Address :	4401 LA Hwy 108 44	01 LA Hwy 108	1			=
City, State, Zip:	Lake Charles LA 706	65	na a managa man Chananahan — 17 yang mengan sebesah sebesah	·		
Contact :	Mike Robison		Title :			
Phone No :	(337) 708-6344	per manufalment on communications as a communication of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the co	Fax:			
24 / HR Phone:	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s					
U.S EPA I.D No :			er er en me me un der			
State I.D :			SIC Code	•	ere e e e e e e e e e e e e e e e e e e	
SECTION 2: Billing	g Information					
Company :	Citgo Accounts Payat	ole	•			
Address :	P. O. Box 4970					
City, State, Zip :	Houston TX 77210		menter the Affection of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	
Contact :	Randy Woolvine		Title :			
Phone No :	(337) 708-8274		Fax:	(337) 708-	6289	
•	Is using caustic to remo	-	ing the Material / Produ Powder	ct:		
Color :		red to brown	Odor :		slight to medi	um
Specific Gravity	(Water=1) :	1-1.2	Density:		9.5-10	lbs / gal
Does this material	contain any total pheno	lic compounds?	✓ Yes No			
Does this material	contain any para substit	uted phenolic compou	nds? Yes	✓ No		
Layers :	<b>✓</b> Single-Phas	Multi-Phas	е			
Container Type :	Drum []:	Tote	Truck Other (ex	plain)	Barg	e
Container Size :	340K gallons					
Number Of Units						
Proper U.S. DOT	Shipping Name :	OF TO V W. A.R. AL BUILDING CHARLES AND	Sodium Hydrox	ide Solution		
Class: 8	UN/N	<b>A</b> : UN1824	PG: II		R	Q:

Flash Point	⁺ pH	Reactive Sulfides	Reactive Cyanides	Solids
N/A	10.5-12.5	N/A mg/l	N/A mg/l	0 %
0.11				
Oil and Grease	TOC	Zinc	Copper	Nickel

## SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Sodium Hydroxide	3-12	%
Phenols	7,500 -250,000	mg/ I
Water	88-97	%

SECT	ON!	5: Safety	Related	l Data

If the handling of this material / product requires the use of special protective equipment, please explain.

Chemical Suits, Rubber Gloves, Rubber Boots, Safety Goggles, Face Shield, Hard Hat

SECTION	6: Attached	Supporting	Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. MSDS

SECTION 7: Incompatibilities

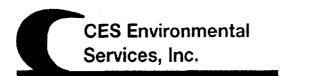
Please list all incompatibilities (if any):

Metals, Oxidizing Agents

### SECTION 8: Material Producer's Certification

The information contained herein is based on generator knowledge and/or analytical data. I hereby cerity that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature :	Date :
Printed Name / Title : /	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information :
Compliance Officer: Polythe Thyd	
Date: 1-8-09 Status: Approved Rejected	
Approval Number: PA-3136	



# Material / Product Approval Letter

1/8/2009 Date

Randy Woolvine Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3137

Expiration Date 1/8/2011

**Producer:** Citgo Refinery

Address: 4401 LA Hwy 108

Lake Charles, LA 70665

Material / Product Information

Name of Material / Product Napthenic Caustic Solution

Container Type:

Barge

Detailed Description of Process Generating or Producing the Material / Product:

Processing of fuels using caustic to remove sulfides

Color: brown to red

**Odor:** slight to medium

**pH**: 6-12.5

**Physical State:** 

**Incompatibilities:** Metals, Oxidizing Agents

Safety Related Data/Special Handling:

Chemical Suit, Rubber Gloves & boots, Safety Goggles, Face Shield, Hard Hat

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. MBI

# CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 nmental Subjective and Houston, TX 77021

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mater	ial Producer Informatio	on					
Company :	Citgo Refinery					eminaria de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición dela composición de la composición de la composición dela composición dela composición dela composición de la c	
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City, State, Zip:	Lake Charles LA 706	665					and the same pages. The same department is a same state of
Contact :	Mike Robison	were the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second		Title :			
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State I.D:				SIC Cod	e	error (e.e.) All management significance	manufic control code. Name: \$10 house or about \$100.
SECTION 2: Billing	g Information						
Company :	Citgo Accounts Paya	able					
Address :	P. O. Box 4970						
City, State, Zip :	Houston TX 77210						
Contact :	Randy Woolvine			Title :	Hamanian say		
Phone No :	(337) 708-8274		I	Fax:	(337) 708-	6289	
SECTION 3: Gener	ral Description of the M	aterial / Product					
Name of Mateira	I / Product : Napthenic	c Caustic Solution					
	tion of the Process (		ing the Materia	i / Produ	ict:		
•	Is using caustic to rem	•	mig the materia				
Physical State :	Liquid	Sludge	Pow	der			
	Solid	Filter Cake	Com	bination			
Color :	,	brown to red	Odor:			slight to med	ium
Specific Gravity	(Water=1) :	.95-1.1	Density:			8.5-9	lbs / gai
Does this material	contain any total phene	olic compounds?	✓ Yes	No			
Does this material	contain any para subst	tituted phenolic compo	unds?	Yes	∏ No		
_ayers :	Single-Phas	Multi-Phas	se				
Container Type :	Drum [	Tote 🗒	Truck 🕡	Other (e	xplain)	Barg	e
Container Size :	340K gallons						
lumber Of Units							
roper U.S. DOT	Shipping Name :		Sodiu	m Hydro	xide Solution		
Class 8	LIN/I	NΔ UN1760	PG		l	D	0.

Flash Point	рН	Reactive Sulfides	Reactive Cyanides	Solids 1
N/A	6-12.5	N/A mg/l	N/A mg/l	0 %
Oil and Grease	TOC	Zinc	Copper	Nickel
N/A mg/l	N/A mg/l	N/A mg/l	N/A mg/l	N/A mg/l

## SECTION 4: Physical and Chemical Data

Ranges are acceptable	
anges are acceptable	or %
0-1	%
2-6	%
<10K	mg/l
93-98	%
•	2-6 <10K

**SECTION 5: Safety Related Data** 

If the handling of this material / product requires the use of special protective equipment, please explain. Chemical Suit, Rubber Gloves & boots, Safety Goggles, Face Shield, Hard Hat

SECTION 6: Attached Supporting Documents	
List all documents, notes, data, and/or analysis attached to this form as part of the material / pr	oduct profile
MSDS	

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

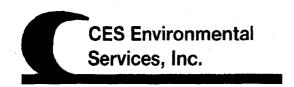
Metals, Oxidizing Agents

SECTION	g.	Material	Producer's	Certification
SECTION.	o.	waterial	riouucei S	Ceruncation

The information contained herein is based on generator knowledge and/or—analytical data. I hereby cerity that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature .	THE REST CONTRACTOR AND ADDRESS OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERT			Date:	
Printed Name / Title :				<del></del> .	
CES USE ONLY (DO N	OT WRITE IN THIS	SPACE)		Process Facility Information :	***************************************
Compliance Officer :	Kobbul.	Thyla			
Date: 1-7-09	Status :	Approved	Rejected		
Approval Number :		PA-3137			

PA-3163



# **Material / Product Approval Letter**

Date 1/29/2009

Dear Sal Amato

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3163

Expiration Date 1/29/2011

Producer: Sochem

Address:

### Material / Product Information

Name of Material / Product Sulfidic Caustic Solutions > 15%

**Container Type:** 

## Detailed Description of Process Generating or Producing the Material / Product:

Spent Caustic used to scrub sulfids from fuel products

Color: brown to red Odor: sulphur h2s smell pH: 10-12

Physical State: Incompatibilities:

Safety Related Data/Special Handling:

PPE H2S monitor

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

# CES Environmental Services, Inc.

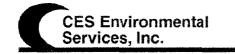
4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Materi	al Producer Information	1				
Company:	Sochem					
Address :	P.O. Box 1912	3 TOTAL 199 A 2 11 - 11 TOTAL 199 A 11 - 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 199 A 11 TOTAL 1				
City, State, Zip :						
Contact :	Sal Amato			Title :		
Phone No :	(225) 644-3180			Fax:		
24 / HR Phone :		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s				
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State I.D :			and a first time to the first wind with the conserver of	SIC Code	WENT MANAGEMENT AND AND AND AND AND AND AND AND AND AND	
SECTION 2: Billing	Information					
Company:	Sochem					
Address :	P.O. Box 1912		, -	Print Perfection State Annual Compression (State Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compression Compr	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	
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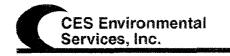
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SECTION 5: Safety Related Dat	a				
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PPE H2S monitor					
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SECTION 6: Attached Supporting	ng Documents				
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SECTION 7: Incompatibilities		***************************************			
Please list all incompatibilit	ies (if any):				
ECTION 8: Material Producer's		property.			
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Date: 1/28/2009	Status :	Approved	Rejected		
American of Normalis		DA 0400			
Approval Number :		PA-3163			



## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

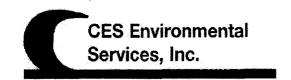
1. Base Pricing (including freight):
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3. Surcharge Pricing:
4. Special Testing Requirements:
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5. Treatment and Handling Protocol:
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6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recov	ered/Recycled (if app			<del></del>
8. Management for Produc	ct Recovered/Recycle	ed (if applicable)		

PA-3164



## **Material / Product Approval Letter**

Date 2/12/2009

Dear Ramiz Talifaz

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3164

Expiration Date 2/12/2011

Producer: Kosovo Government

Address:

Material / Product Information

Name of Material / Product Disulfide Oil

**Container Type:** 

Iso Container

Detailed Description of Process Generating or Producing the Material / Product:

Containers of oil consolidated into iso containers

Color: Green, Born to Black

Odor: Pungent

pH: 4-10

Physical State:

Incompatibilities: Bleach, Strong Oxidizers, Reducing Agents, Acids corrosive to

Copper & Copper Alloys

Safety Related Data/Special Handling:

FLAMMABLE PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Materi	al Producer Information	on			
Company:	Kosovo Governmen	t.			
Address:					
City, State, Zip:					
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	Solid	Filter Cake	Combination		
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Specific Gravity	(Water=1) :	.99-1.06	Density:	8.2-8.8	lbs / gal
Does this material	contain any total pher	olic compounds?	Yes V No		
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Layers :	✓ Single-Phase	Multi-Phas	se .		
Container Type :	Drum	Tote 🔢	Truck V Other (exp	lain) Iso Cont	ainer
Container Size :	3000gallons	<del></del>		esta di <u>distributione de la respecta de la respecta de respecta de respecta de la respecta de respecta de respectado de la respecta de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respectación de la respect</u>	namente de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la company
Number Of Units	- a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a survey and a s				,
Proper U.S. DOT	Shipping Name :	RQ, UN	11993, Flammable Liquids,	N.O.S. (disufide oil), 3, PG	11
Class: 3	UN	/NA: UN 1993	PG: II	R	Q: 100

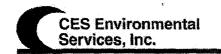
. Flash Point	pН	Reactive Sulfides	Reactive Cyanides	Solids
<86	4-10	N/A mg/l	N/A mg/l	0 %
Oil and Grease	, TOC	Zinc	Copper	Nickel
>1500 mg/l	N/A mg/l	N/A mg/l	N/A mg/l	N/A mg/l

## SECTION 4: Physical and Chemical Data

0-5	%
	70.
95-100	%
_	95-100

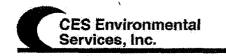
The material product consists of the following materials	Manges are acceptable	V1 /0
WATER	0-5	%
DISULFIDE OIL SOLUTIONS	95-100	%
		·
SECTION 5: Safety Related Data		
f the handling of this material / product requires the use of special protective of	equipment, please explain.	
FLAMMABLE PPE		
SECTION 8: AMERICA Comments Designation		
SECTION 6: Attached Supporting Documents	rusa accessoral d'alcalidade describ	
List all documents, notes, data, and/or analysis attached to this form as part of MSDS	Ine material / product prome.	
SECTION 7: Incompatibilities		
Please list all incompatibilities (if any):		
Bleach, Strong Oxidizers, Reducing Agents, Acids corrosive to Copper & Copper Allo	oys	
	,	
SECTION 8: Material Producer's Certification		
The information contained herein is based on ☑ generator knowledge and/or	analytical data. I hereby co	erity that the
above and attached description is complete and accurate to the best of my kno	owledge and ability to determine	that no
deliberate or willful omissions of composition properties exist and that all know disclosed. I certify that the materials tested are representative of all materials of		een
inscriosed. Teertify that the materials tested are representative of an materials of	described by this document.	
Authorized Signature: LAGET WAS	HARRINGE	*
	rvale in row in the	and the second
Printed Name / Title : /		
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Informatio	
D. M. A.	\$128,946.82 for 3 iso contain	
Compliance Officer: Matt Bowman Certification	Ψ120,0 70,02 107 0 100 001 tunn	Annual of the control
Date: Z-1Z-29 Status: (Approved) Rejected		
Approval Number: PA-3164		
Approval number:		

+3164



## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
\$128,946.82 for 300 conteners
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
4. Special Testing Requirements:
Sodium, BTU, Ash, Zinc, Iron & Chlorideo
5. Treatment and Handling Protocol:
Sold as is to PEARS
6. Treated Wastewater Discharge Subcategory:
Subcategory A Subcategory R Subcategory C



## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Rec	overed/Recycled (if application	able):	
,			
			and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
		••	
8. Management for Pro	duct Recovered/Recycled (i	if applicable)	

#### **MATERIAL SAFETY DATA SHEET**

#### **DISULFIDE OIL SOLUTIONS**

PRODUCT IDENTIFICATION AND USE

MANUFACTURER:

CES ENVIRONMENTAL SERVICES, INC.

4904 GRIGGS ROAD HOUSTON, TX 77021

**EMERGENCY PHONE NUMBER:** 

(713) 676-1460

PRODUCT IDENTIFIER:

DISULFIDE OIL **SULFIDING AGENT** 

PRODUCT USE:

B2 - FLAMMABLE LIQUID.

WHMIS CLASSIFICATION:

*

D1A - VERY TOXIC MATERIAL CAUSING IMMEDIATE AND

95

5

SERIOUS TOXIC EFFECTS

D2B - TOXIC MATERIAL CAUSING OTHER TOXIC EFFECTS

CAS#

None

HAZARDOUS INGREDIENTS

DISULFIDE OIL SOLUTIONS

%WW

TIV ACGIH TWA = 0.5 PPM

34

رد ق

WATER

LD50: 290 TO 500 MG/KG (ORAL-RATS)

* 数

(SKIN)

LD50: >2.000 MG/KG (DERMAL-RATS)

LC50: 1,310 PPM (4-HR. - INHALATION-RATS) NOTE: Mixture of Dimethyl Disulfide, Diethyl Disulfide, Methyl Ethyl Disulfide

PHYSICAL DATA

PHYSICAL STATE:

ODOR AND APPEARANCE:

LIQUID GREEN, BROWN, BLACK LIQUID, STRONG PUNGENT ODOR

ODOR THRESHOLD: 8-10 (PPB) SPECIFIC GRAVITY/DENSITY (G/ML): 0.99 - 1.06 @ 20°C

<u>VAPOR PRESSURE:</u>

0.4 PSIA

VAPOR DENSITY (AIR = 1):

3.25

**VOLATILITY/VOL (%):** 

100

SOLUBILITY IN H20:

INSOLUBLE

**EVAPORATION RATE** 

NE

**BOILING POINT:** 

105-120°C

FREEZING POINT

-80°C

PH:

NA

SHIPPING INFORMATION

UN 1993, 3, II, DISULFIDE OIL

U.S.DOT 49 CFR 172.101:

PROPER SHIPPING NAME: FLAMMABLE LIQUIDS, N.O.S. (DISULFIDE OIL)

ID NUMBER: UN1993

HAZARD CLASS OR DIVISION: 3

PACKING GROUP: II

LABELING REQUIREMENTS: 3

* NA - NOT APPLICABLE

* NE - NOT ESTABLISHED

#### MATERIAL SAFETY DATA SHEET

#### DISULFIDE OIL SOLUTIONS

FIRE AND EXPLOSION HAZARD

FLAMMABILITY.

FLAMMABLE

CONDITIONS:

HEAT, SPARKS, OPEN FLAMES

MEANS OF EXTINCTION:

WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY

CHEMICAL. WATER MAY BE INEFFECTIVE.

FLASHPOINT:

< 30°C

UPPER EXPLOSION LIMIT (% V): LOWER EXPLOSION LIMIT (% V): 16 APPROX. 1.1 APPROX.

**AUTO-IGNITION TEMPERATURE:** 

300°C (572°F) APPROX.

HAZARDOUS COMBUSTION PRODUCTS:

OXIDES OF CARBON, SULFUR OXIDES, HYDROGEN

SULFIDE

EXPLOSION DATA:

NE

SENSITIVITY TO IMPACT:

NO

SENSITIVITY TO STATIC DISCHARGE:

NO

REACTIVITY

CHEMICAL STABILITY:

STABLE INCOMPATIBLE MATERIALS:

BLEACH, STRONG OXIDIZERS, REDUCING AGENTS, ACIDS

CORROSIVE TO GOPPER AND COPPER ALLOYS.

**CONDITIONS OF REACTIVITY:** 

HAZARDOUS DECOMPOSITION

DECOMPOSITION TEMPERATURE: 390°C

HYDROGEN SULFIDE, METHYL MERCAPTAN. CAN REACT

PRODUCTS:

WITH CARBON STEEL TO FORM PYROPHORIC IRON

SULFIDES.

### **HEALTH HAZARD INFORMATION**

**ROUTE OF ENTRY** 

SKIN CONTACT:

MAY CAUSE IRRITATION

SKIN ABSORPTION:

上 神横木

EYE:

NE MAY CAUSE IRRITATION

**INGESTION** INHALATION:

HARMFUL IF SWALLOWED HARMFUL IF INHALED

**ACUTE OVER EXPOSURE EFFECTS:** 

CHRONIC OVER EXPOSURE EFFECTS:

NE

SENSITIZATION: CARCINOGENICITY:

DOES NOT MEET WHMIS CRITERIA DOES NOT MEET WHMIS CRITERIA

TERATOGENICITY: MUTAGENICITY:

DOES NOT MEET WHMIS CRITERIA DOES NOT MEET WHMIS CRITERIA

REPRODUCTIVE TOXICITY:

DOES NOT MEET WHMIS CRITERIA

## PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

WEAR SAFETY GOGGLES AND IMPERVIOUS

GLOVES. WHERE AIRBORNE EXPOSURE IS LIKELY.

WEAR A NIOSH APPROVED RESPIRATOR

EQUIPPED WITH AN ORGANIC VAPOR CARTRIDGE.

SPECIFIC ENGINEERING CONTROLS:

LOCAL EXHAUST IS RECOMMENDED.

*NA - NOT APPLICABLE

2

* NE - NOT ESTABLISHED

#### MATERIAL SAFETY DATA SHEET

#### DISULFIDE OIL SOLUTIONS

LEAK AND SPILL PROCEDURES: ABSORB SMALL SPILLS WITH SAND. DIKE LARGE

SPILLS AND COVER WITH FOAM OR WATER SPRAY TO REDUCE VAPOR EMISSIONS. TRANSFER TO A

CLOSED CONTAINER. TREAT AREA WITH HOUSEHOLD BLEACH TO ELIMINATE ODOR. DO

NOT USE SOLID BLEACH.

WASTE DISPOSAL: HAZARDOUS WASTE. DO NOT ALLOW PRODUCT

TO ENTER THE ENVIRONMENT. CONSULT

FEDERAL OR LOCAL AUTHORITIES FOR APPROVED

DISPOSAL METHODS.

HANDLING PROCEDURES AND

STORAGE REQUIREMENTS:

**EQUIPMENT:** 

KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES. WASH BEFORE EATING, DRINKING, USING TOBACCO PRODUCTS, OR RESTROOMS. KEEP IN A CLOSED, LABELED CONTAINER IN A VENTILATED AREA. CONTAINER HAZARDOUS

WHEN EMPTY.

FIRST AID MEASURES

EYE: FLUSH EYES WITH LARGE AMOUNT OF WATER FOR

15 MINUTES WHILE HOLDING EYELIDS OPEN. SEEK

MEDICAL ATTENTION.

SKIN: WASH SKIN WITH WATER AND SOAP. SEEK MEDICAL

ATTENTION IF IRRITATION OCCURS OR PERSISTS.

<u>INGESTION</u>: DO NOT GIVE LIQUIDS IF PERSON IS UNCONSCIDUS OR

VERY DROWSY. DO NOT INDUCE VOMITING. SEEK

IMMEDIATE MEDICAL ATTENTION.

INHALATION: REMOVE PERSON TO FRESH AIR IMMEDIATELY. IF

BREATHING HAS STOPPED, APPLY ARTICIAIAL

RESPIRATION AND ADMINISTER OXYGEN IF NECESSARY.

SEEK MEDICAL ATTENTION.

#### REGULATORY INFORMATION

#### U.S. REGULATIONS:

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4); NOT REGULATED.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30); NOT REGULATED.

SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 GFR 355.40): NOT REGULATED.

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):

ACUTE: NO CHRONIC: NO FIRE: YES REACTIVE: NO

SUDDEN RELEASE: NO

* NA - NOT APPLICABLE

* NE - NOT ESTABLISHED

# MATERIAL SAFETY DATA SHEET DISULFIDE OIL SOLUTIONS

SARA TITLE III SECTION 313 (40 CFR 372.65): NOT REGULATED

OSHA PROCESS SAFETY (29 CFR 1910.119): NOT REGULATED

PREPARATION DATE

PREPARED BY:

**CES TECHNICAL DEPARTMENT** 

4 4 .

PHONE NUMBER OF PREPARER: DATE PREPARED (MM/DD/YY): (713) 676-1460 07/28/08

MINIMUM CONTACT WITH THIS AND ALL CHEMICALS IS RECOMMENDED AS A GOOD GENERAL POLICY TO FOLLOW.

THE INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, SINCE DATA, SAFETY STANDARDS, AND GOVERNMENT REGULATIONS ARE SUBJECT TO CHANGE AND THE CONDITIONS OF HANDLING AND USE OR MISUSE ARE BEYOND OUR CONTROL, CES ENVIRONMENTAL SERVICES, INC. MAKES NO WARRANTY, EXPRESSED OR IMPLIED, WITH RESPECT TO COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. USER SHOULD SATISFY HIMSELF THAT HE HAS ALL GURRENT DATA RELEVANT TO HIS PARTICULAR USE.

#### **DISULFIDE OIL SOLUTIONS**

PRODUCT IDENTIFICATION AND USE

MANUFACTURER:

CES ENVIRONMENTAL SERVICES, INC.

4904 GRIGGS ROAD HOUSTON, TX 77021

**EMERGENCY PHONE NUMBER:** 

PRODUCT IDENTIFIER: PRODUCT USE: WHMIS CLASSIFICATION: (713) 676-1460 DISULFIDE OIL **SULFIDING AGENT** 

B2 - FLAMMABLE LIQUID.

D1A - VERY TOXIC MATERIAL CAUSING IMMEDIATE AND

SERIOUS TOXIC EFFECTS

D2B - TOXIC MATERIAL CAUSING OTHER TOXIC EFFECTS

HAZARDOUS INGREDIENTS

%W/W 95

5

CAS# None

10 W E

(SKIN)

TLV ACGIH TWA = 0.5 PPM

DISULFIDE OIL SOLUTIONS

337

WATER

LD50: 290 TO 500 MG/KG (ORAL-RATS) LD50: >2,000 MG/KG (DERMAL-RATS)

LC50: 1,310 PPM (4-HR. - INHALATION-RATS) NOTE: Mixture of Dimethyl Disulfide, Diethyl

Disulfide, Methyl Ethyl Disulfide

PHYSICAL DATA

PHYSICAL STATE: LIQUID

**ODOR AND APPEARANCE:** GREEN, BROWN, BLACK LIQUID, STRONG PUNGENT ODOR

ODOR THRESHOLD: 8-10 (PPB)

SPECIFIC GRAVITY/DENSITY (G/ML): 0.99 - 1.06 @ 20°C

VAPOR PRESSURE: 0.4 PSIA VAPOR DENSITY (AIR = 1): 3.25 VOLATILITY/VOL (%): 100 SOLUBILITY IN H20: **INSOLUBLE** EVAPORATION RATE NE 105-120°C **BOILING POINT:** 

-80°C FREEZING POINT: PH: NA

SHIPPING INFORMATION

UN 1993, 3, II, DISULFIDE OIL

U.S.DOT 49 CFR 172.101:

PROPER SHIPPING NAME: FLAMMABLE LIQUIDS, N.O.S. (DISULFIDE OIL)

ID NUMBER: UN1993

HAZARD CLASS OR DIVISION: 3

PACKING GROUP: II

LABELING REQUIREMENTS: 3

* NA - NOT APPLICABLE

#### DISULFIDE OIL SOLUTIONS

FIRE AND EXPLOSION HAZARD

FLAMMABILITY:

FLAMMABLE

CONDITIONS:

HEAT, SPARKS, OPEN FLAMES

MEANS OF EXTINCTION:

WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY

CHEMICAL. WATER MAY BE INEFFECTIVE.

FLASHPOINT:

< 30°C

UPPER EXPLOSION LIMIT (% V): LOWER EXPLOSION LIMIT (% V): 16 APPROX. 1.1 APPROX.

AUTO-IGNITION TEMPERATURE:

300°C (572°F) APPROX.

HAZARDOUS COMBUSTION PRODUCTS:

OXIDES OF CARBON, SULFUR OXIDES, HYDROGEN

SULFIDE

**EXPLOSION DATA**:

SENSITIVITY TO IMPACT:

NE NO

SENSITIVITY TO STATIC DISCHARGE:

NO

REACTIVITY

CHEMICAL STABILITY:

**INCOMPATIBLE MATERIALS:** 

STABLE

BLEACH, STRONG OXIDIZERS, REDUCING AGENTS, ACIDS

CORROSIVE TO COPPER AND COPPER ALLOYS.

CONDITIONS OF REACTIVITY:

DECOMPOSITION TEMPERATURE: 390°C

HAZARDOUS DECOMPOSITION HYDROGEN SULFIDE, METHYL MERCAPTAN. CAN REACT WITH CARBON STEEL TO FORM PYROPHORIC IRON

SULFIDES.

HEALTH HAZARD INFORMATION

**ROUTE OF ENTRY** 

SKIN CONTACT:

MAY CAUSE IRRITATION

SKIN ABSORPTION:

NE

EYE: INGESTION: INHALATION: MAY CAUSE IRRITATION HARMFUL IF SWALLOWED

HARMFUL IF INHALED

ACUTE OVER EXPOSURE EFFECTS:

NE

CHRONIC OVER EXPOSURE EFFECTS: SENSITIZATION:

NE DOES NOT MEET WHMIS CRITERIA

CARCINOGENICITY: TERATOGENICITY: MUTAGENICITY: REPRODUCTIVE TOXICITY: DOES NOT MEET WHMIS CRITERIA
DOES NOT MEET WHMIS CRITERIA
DOES NOT MEET WHMIS CRITERIA
DOES NOT MEET WHMIS CRITERIA

PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

WEAR SAFETY GOGGLES AND IMPERVIOUS

GLOVES. WHERE AIRBORNE EXPOSURE IS LIKELY,

WEAR A NIOSH APPROVED RESPIRATOR

EQUIPPED WITH AN ORGANIC VAPOR CARTRIDGE.

**SPECIFIC ENGINEERING CONTROLS:** 

LOCAL EXHAUST IS RECOMMENDED.

* NA - NOT APPLICABLE

2

#### DISULFIDE OIL SOLUTIONS

LEAK AND SPILL PROCEDURES: ABSORB SMALL SPILLS WITH SAND. DIKE LARGE

SPILLS AND COVER WITH FOAM OR WATER SPRAY TO REDUCE VAPOR EMISSIONS, TRANSFER TO A CLOSED CONTAINER. TREAT AREA WITH HOUSEHOLD BLEACH TO ELIMINATE ODOR. DO

NOT USE SOLID BLEACH.

HAZARDOUS WASTE. DO NOT ALLOW PRODUCT WASTE DISPOSAL:

TO ENTER THE ENVIRONMENT. CONSULT

FEDERAL OR LOCAL AUTHORITIES FOR APPROVED

DISPOSAL METHODS.

HANDLING PROCEDURES AND

STORAGE REQUIREMENTS:

**EQUIPMENT:** 

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· ·

FIRST AID MEASURES

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EYE: FLUSH EYES WITH LARGE AMOUNT OF WATER FOR

15 MINUTES WHILE HOLDING EYELIDS OPEN. SEEK

MEDICAL ATTENTION.

WASH SKIN WITH WATER AND SOAP. SEEK MEDICAL SKIN:

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REMOVE PERSON TO FRESH AIR IMMEDIATELY. IF INHALATION:

BREATHING HAS STOPPED, APPLY ARTICIAIAL

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#### **U.S. REGULATIONS:**

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ACUTE: NO CHRONIC: NO FIRE: YES REACTIVE: NO

SUDDEN RELEASE: NO

* NA - NOT APPLICABLE

3

## MATERIAL SAFETY DATA SHEET DISULFIDE OIL SOLUTIONS

SARA TITLE III SECTION 313 (40 CFR 372.66): NOT REGULATED

OSHA PROCESS SAFETY (29 CFR 1910.119): NOT REGULATED

PREPARATION DATE

PREPARED BY:

CES TECHNICAL DEPARTMENT

1. N 2 2

PHONE NUMBER OF PREPARER: DATE PREPARED (MM/DD/YY):

(713) 676-1460 07/28/08

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#### DISULFIDE OIL SOLUTIONS

PRODUCT IDENTIFICATION AND USE

ALLIA W MANUFACTURER:

CES ENVIRONMENTAL SERVICES, INC.

4904 GRIGGS ROAD HOUSTON, TX 77021

**EMERGENCY PHONE NUMBER:** 

PRODUCT IDENTIFIER:

PRODUCT USE:

WHMIS CLASSIFICATION:

(713) 676-1460 DISULFIDE OIL

SULFIDING AGENT

B2 - FLAMMABLE LIQUID.

D1A - VERY TOXIC MATERIAL CAUSING IMMEDIATE AND

SERIOUS TOXIC EFFECTS

D2B - TOXIC MATERIAL CAUSING OTHER TOXIC EFFECTS

HAZARDOUS INGREDIENTS

%W/W 95

5

CAS# None

TLVACGIH TWA = 0.5 PPM

r a r

(SKIN)

DISULFIDE OIL SOLUTIONS

WATER

LD50: 290 TO 500 MG/KG (ORAL-RATS)

LD50: >2,000 MG/KG (DERMAL-RATS) LC50: 1,310 PPM (4-HR. - INHALATION-RATS) NOTE: Mixture of Dimethyl Disulfide, Diethyl

制业

Disulfide, Methyl Ethyl Disulfide 

PHYSICAL DATA

PHYSICAL STATE:

ODOR AND APPEARANCE:

LIQUID

0.4 PSIA

3.25

GREEN, BROWN, BLACK LIQUID, STRONG PUNGENT ODOR 8-10 (PPB)

ODOR THRESHOLD:

SPECIFIC GRAVITY/DENSITY (G/ML): 0.99 - 1.06 @ 20°C

VAPOR PRESSURE: VAPOR DENSITY (AIR = 1): <u>VOLATILITY/VOL (%):</u>

100 SOLUBILITY IN H20: INSOLUBLE **EVAPORATION RATE** NE 105-120°C **BOILING POINT:** 

FREEZING POINT: -80°C PH. NA

SHIPPING INFORMATION

UN 1993, 3, II, DISULFIDE OIL

U.S.DOT 49 CFR 172.101:

PROPER SHIPPING NAME: FLAMMABLE LIQUIDS, N.O.S. (DISULFIDE OIL)

ID NUMBER: UN1993

HAZARD CLASS OR DIVISION: 3

PACKING GROUP: II

LABELING REQUIREMENTS: 3

* NA - NOT APPLICABLE

#### **DISULFIDE OIL SOLUTIONS**

FIRE AND EXPLOSION HAZARD

FLAMMABILITY:

FLAMMABLE

CONDITIONS:

HEAT, SPARKS, OPEN FLAMES

MEANS OF EXTINCTION:

WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY

CHEMICAL. WATER MAY BE INEFFECTIVE.

FLASHPOINT:

< 30°C

**UPPER EXPLOSION LIMIT (% V):** 

16 APPROX. 1.1 APPROX.

LOWER EXPLOSION LIMIT (% V): **AUTO-IGNITION TEMPERATURE:** 

300°C (572°F) APPROX.

HAZARDOUS COMBUSTION PRODUCTS:

OXIDES OF CARBON, SULFUR OXIDES, HYDROGEN

SULFIDE

**EXPLOSION DATA** SENSITIVITY TO IMPACT: NE NO

SENSITIVITY TO STATIC DISCHARGE:

NO

REACTIVITY

CHEMICAL STABILITY:

INCOMPATIBLE MATERIALS:

STABLE

BLEACH, STRONG OXIDIZERS, REDUCING AGENTS, ACIDS CORROSIVE TO COPPER AND COPPER ALLOYS.

DECOMPOSITION TEMPERATURE: 390°C

CONDITIONS OF REACTIVITY: HAZARDOUS DECOMPOSITION

HYDROGEN SULFIDE, METHYL MERCAPTAN. CAN REACT

PRODUCTS:

WITH CARBON STEEL TO FORM PYROPHORIC IRON

SULFIDES.

#### **HEALTH HAZARD INFORMATION**

**ROUTE OF ENTRY** 

SKIN CONTACT:

MAY CAUSE IRRITATION

SKIN ABSORPTION:

有操作

NE

EYE: INGESTION:

INHALATION:

MAY CAUSE IRRITATION HARMFUL IF SWALLOWED HARMFUL IF INHALED

**ACUTE OVER EXPOSURE EFFECTS:** 

CHRONIC OVER EXPOSURE EFFECTS:

NE NE

SENSITIZATION:

DOES NOT MEET WHMIS CRITERIA DOES NOT MEET WHMIS CRITERIA

CARCINOGENICITY: TERATOGENICITY:

DOES NOT MEET WHMIS CRITERIA DOES NOT MEET WHMIS CRITERIA

MUTAGENICITY: REPRODUCTIVE TOXICITY:

DOES NOT MEET WHMIS CRITERIA

#### **PREVENTIVE MEASURES**

PERSONAL PROTECTIVE EQUIPMENT:

WEAR SAFETY GOGGLES AND IMPERVIOUS

GLOVES. WHERE AIRBORNE EXPOSURE IS LIKELY.

WEAR A NIOSH APPROVED RESPIRATOR

EQUIPPED WITH AN ORGANIC VAPOR CARTRIDGE.

SPECIFIC ENGINEERING CONTROLS:

LOCAL EXHAUST IS RECOMMENDED.

*NA - NOT APPLICABLE

* NE - NOT ESTABLISHED

2

#### DISULFIDE OIL SOLUTIONS

LEAK AND SPILL PROCEDURES: ABSORB SMALL SPILLS WITH SAND. DIKE LARGE

SPILLS AND COVER WITH FOAM OR WATER SPRAY TO REDUCE VAPOR EMISSIONS. TRANSFER TO A CLOSED CONTAINER. TREAT AREA WITH

HOUSEHOLD BLEACH TO ELIMINATE ODOR. DO NOT USE SOLID BLEACH.

WASTE DISPOSAL: HAZARDOUS WASTE, DO NOT ALLOW PRODUCT

TO ENTER THE ENVIRONMENT. CONSULT

FEDERAL OR LOCAL AUTHORITIES FOR APPROVED

DISPOSAL METHODS

HANDLING PROCEDURES AND

EQUIPMENT:

KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES. WASH BEFORE EATING, DRINKING, USING TOBACCO PRODUCTS, OR RESTROOMS. KEEP IN A CLOSED, LABELED CONTAINER IN A VENTILATED AREA. CONTAINER HAZARDOUS

14. 15. 15. 14. 14. 14.

STORAGE REQUIREMENTS:

WHEN EMPTY.

FIRST AID MEASURES

FLUSH EYES WITH LARGE AMOUNT OF WATER FOR

15 MINUTES WHILE HOLDING EYELIDS OPEN. SEEK

MEDICAL ATTENTION.

SKIN: WASH SKIN WITH WATER AND SOAP. SEEK MEDICAL ATTENTION IF IRRITATION OCCURS OR PERSISTS.

INGESTION: DO NOT GIVE LIQUIDS IF PERSON IS UNCONSCIOUS OR

VERY DROWSY. DO NOT INDUCE VOMITING. SEEK

IMMEDIATE MEDICAL ATTENTION.

INHALATION: REMOVE PERSON TO FRESH AIR IMMEDIATELY. IF

BREATHING HAS STOPPED, APPLY ARTICIAIAL

RESPIRATION AND ADMINISTER OXYGEN IF NECESSARY.

SEEK MEDICAL ATTENTION.

#### REGULATORY INFORMATION

#### U.S. REGULATIONS:

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): NOT REGULATED.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30): NOT REGULATED.

SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40): NOT REGULATED.

3

#### SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):

ACUTE: NO CHRONIC: NO FIRE: YES REACTIVE: NO

SUDDEN RELEASE: NO

* NA - NOT APPLICABLE

# MATERIAL SAFETY DATA SHEET DISULFIDE OIL SOLUTIONS

SARA TITLE III SECTION 313 (40 CFR 372.65): NOT REGULATED

OSHA PROCESS SAFETY (29 CFR 1910.119): NOT REGULATED

PREPARATION DATE

PREPARED BY:

**CES TECHNICAL DEPARTMENT** 

A M Z T

PHONE NUMBER OF PREPARER:

(713) 676-1460

DATE PREPARED (MM/DD/YY):

07/28/08

MINIMUM CONTACT WITH THIS AND ALL CHEMICALS IS RECOMMENDED AS A GOOD GENERAL POLICY TO FOLLOW.

THE INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, SINCE DATA, SAFETY STANDARDS, AND GOVERNMENT REGULATIONS ARE SUBJECT TO CHANGE AND THE CONDITIONS OF HANDLING AND USE OR MISUSE ARE BEYOND OUR CONTROL, CES ENVIRONMENTAL SERVICES, INC. MAKES NO WARRANTY, EXPRESSED OR IMPLIED, WITH RESPECT TO COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. USER SHOULD SATISFY HIMSELF THAT HE HAS ALL CURRENT DATA RELEVANT TO HIS PARTICULAR USE.

PA-3165

4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 2/12/2009

Dear

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3165

Expiration Date 2/12/2011

Generator: Kosovo Government

Address:

#### Waste Information

Name of Waste: Oily Water
TCEQ Waste Code #: RECYCLE

Container Type:

Detailed Description of Process Generating Waste:

From the rinsing of iso containers containing disulfide oil

Color: dark

**Odor:** slight hydrocarbon

**pH:** 4-10

Physical State: Incompatibilities:

Safety Related Data/Special Handling:

STANDARD PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



## CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: General	ator Informati	on	***************************************										
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Container Type :	<b>✓</b> Drun	n 🔳	Tote	圃	Truck	湿	Other	(explair	1)				
Container Size :	55ga	1											
Number Of Units	; 5	***************************************											
Is this a USEPA "H If "Yes", then ple		F3.				<b>Yes</b> onstituer	<b>☑</b> N nts Form		l hereto				
TE "Voc" is its	DOM F	] none	7000										

If "Yes", then please list ALL applicable codes:  Texas State Waste Code No: RECYCLE  Proper U.S. State Waste Code No: Non-RCRA/Non DOT regulated olly water  Class: N/A UN/NA: N/A PG: N/A RQ:  Flash Point pH Reactive Sulfides Reactive Cyanides Solids >140 4-10 BRL mg/l BRL mg/l 0  Oil and Grease TOC Zinc Copper Nickel >1500ppm mg/l N/A mg/l BRL mg/l BRL mg/l BRL mg/l BRL  SECTION 4: Physical and Chemical Data  COMPONENTS TABLE Concentration	Solids 0 %  Nickel BRL mg/l
Is this an "F" or "K" Listed waste or mixed with one?  If "Yes", then please list ALL applicable codes:  Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR	RQ: N/A  Solids 0 %  Nickel BRL mg/l
Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR	RQ: N/A  Solids 0 %  Nickel BRL mg/l
Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR	RQ: N/A  Solids 0 %  Nickel BRL mg/l
If "Yes", then please list ALL applicable codes:  Texas State Waste Code No : RECYCLE  Proper U.S. State Waste Code No : Non-RCRA/Non DOT regulated oily water  Class : N/A UN/NA: N/A PG : N/A RQ :  Flash Point pH Reactive Sulfides BRL mg/l BRL mg/l 0  Oil and Grease TOC Zinc Copper Nickel BRL mg/l BRL mg/l BRL mg/l BRL  SECTION 4: Physical and Chemical Data  COMPONENTS TABLE The material / product consists of the following materials Ranges are acceptable OWATER 90-95  SECTION 5: Safety Related Data  If the handling of this waste requires the use of special protective equipment, please explain.  SECTION 8: Attached Supporting Documents List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.  SECTION 7: Incompatibilities  Please list all incompatibilities  Please list all incompatibilities  Please list all incompatibilities  Please list all incompatibilities (if any):	RQ: N/A  Solids 0 %  Nickel BRL mg/l
Texas State Waste Code No:    RECYCLE	Solids 0 %  Nickel BRL mg/l  Units or %
Proper U.S. State Waste Code No:  Class: N/A  UN/NA: N/A  PG: N/A  RQ:  Flash Point  >140  Dil and Grease  >150 ppm mg/l  N/A mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL mg/l  BRL	Solids 0 %  Nickel BRL mg/l  Units or %
Class: N/A UN/NA: N/A PG: N/A RQ:    Flash Point	Solids 0 %  Nickel BRL mg/l  Units or %
Flash Point   >140	Solids 0 %  Nickel BRL mg/l  Units or %
SECTION 6: Attached Supporting Documents	0 %  Nickel BRL mg/l  Units or %
Oil and Grease   TOC   NIA   mg/l   BRL   mg/l   BRL   mg/l   BRL   mg/l   BRL   mg/l   BRL	Nickel BRL mg/l Units or %
SECTION 4: Physical and Chemical Data  COMPONENTS TABLE The material / product consists of the following materials  DISULFIDE OIL WATER  SECTION 5: Safety Related Data  If the handling of this waste requires the use of special protective equipment, please explain.  STANDARD PPE  SECTION 6: Attached Supporting Documents List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.  SECTION 7: Incompatibilities Please list all incompatibilities (if any):  SECTION 8: Generator's Knowledge Documentation Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the	BRL mg/l Units or %
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	on the
FCLP Metals: BRL	
FCLP Volatilies : BRL	
CLP Semi-Volatiles: BRL	
Reactivity: NON	
2	

Ignita	ability: NON
SECT	ION 9: Waste Receipt Classification Under 40 CFR 437
Is this	s material a wastewater or wastewater sludge?   ☐ YES  ☑ NO
If YE	S', complete this section
PLEA	SE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
Matal	s Subcategory: Subpart A
	Spent electropiating baths and/or sludges
	Metal finishing rinse water and sludges
	Chromate wastes
	Air pollution control blow down water and sludges
	Spent anodizing solutions
	Incineration wastewaters
	Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
Ц	Cleaning, rinsing, and surface preparation solutions from electroplating or phospha
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
Oile 9	Subcategory: Subpart B
	Used oils
$\Box$	Oil-water emulsions or mixtures
	Lubricants
	Coolants
	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products
	Oil spill clean-up
	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
	Off-specification fuels
	Underground storage remediation wastes
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations  Wastewater from oil bearing paint washes
LJ.	wastewater from oil bearing paint wasties
Organ	nics Subcategory Subpart C
	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bering wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesive and/or epoxies formulation
	Wastewater from organic chemical product operations

Corrosivity:

<u>NON</u>

Ę	Tank clean-out from organic, non-petroleum sources
(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory
	Cadmium:       0.2 mg/L         Chromium:       8.9 mg/L         Copper:       4.9 mg/L         Nickel:       37.5 mg/L
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
	☐ Metals Subcatego
	☐ Oils Subcatego
	☐ Organics Subcategory
<u>SE</u>	CTION 10: Additional Instruction
Chi	ou cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, comium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these centrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
The abo	enformation contained herein is based on generator knowledge and/or analytical data. I hereby cerity that the every and attached description is complete and accurate to the best of my knowledge and ability to determine that no iberate or willful omissions of composition properties exist and that all known or suspected hazards have been closed. I certify that the materials tested are representative of all materials described by this document.
	thorized Signature: Not pour Matt Boundate:
PI	nted Name / Title : /
CE	S USE ONLY (DO NOT WRITE IN THIS SPACE)  Process Facility Information:
Co	sworked into job already. No Bill
Da	te: 2-12-09 Status: Approved Rejected
Ap	proval Number: HOU-3165
1	



## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

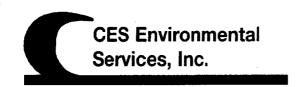
1. Base Pricing (inclu	ding freight):			
# work	ed into	kmp	amy bill	1. No change fathere DM's.
2. Contamination Lir	nit (maximum limit	before surchage	s apply):	
3. Surcharge Pricing:	an an an an an an an an an an an an an a			
4. Special Testing Re	quirements:		<del>and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second </del>	
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5. Treatment and Ha	ndling Protocol:	· · · · · · · · · · · · · · · · · · ·		
6. Treated Wastewal	er Discharge Subca	tegory:		
☐ Subcatego	ory A 🔲 Subca	tegory B	Subcategory C	



## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Pr	roduct Recovered/	Recycled (if appli	cable):		
			•		
8. Manageme	ent for Product Rec	covered/Recycled	(if applicable)		
				**************************************	

3194 Artems, Inc. - Houston



## Waste Pre-Acceptance/Approval Letter

Date 3/3/2009

Dear Grace Dean

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3194

**Expiration Date** 3/3/2011

Generator: Arkema, Inc. - Houston

Address: 2231 Haden Road

Houston, TX 77015

Waste Information

Name of Waste: Sulfur Organic liquid

TCEQ Waste Code #: Product

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Producing Mercaptan product

I roducing wicreaptair product

Odor: Storng pH: neutral

Color: Brown Physical State:

**Incompatibilities:** None Known

Safety Related Data/Special Handling:

Standard PPE. Also use all nessecary safety precautions to handle this stream. It has H2

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

JB/AL

# CES Environmental Services, Inc.

CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900 CES Environmental Services – Port Arthur Facility 2420 S. Gulfway Drive, Port Arthur, TX 77641
Phone: (713) 676-1460 Fax: (713) 676-1676
U.S. EPA ID No: TXR000079307 ISWR No: 88585

SECTION 1: Mate	erial Producer Inform	nation					
Company:	Arkema, Inc						
Address:	2231 Haden Road						
City, State, Zip:	Houston, TX 7701	5					
Contact:	James Wheeland			Title:	Materia	ls Supervisor	
Phone No:	713.450.6767			Fax No:	713-450	-9609	
24/hr Phone:	713.304.7037			•			
U.S. EPA I.D. No:	ла						
State I.D.	na			SIC Code:			
SECTION 2: Billin	g Information – 🔲 S	same as Above		:			
Company:	Arkema, Inc						
Address:	200 Market Street						
City, State, Zip:	Philadelphia, PA [9]	03					
Contact:		T	itle:				
Phone No:	800.628.4453	F.	ax No:	215.419.721	0		
SECTION 3: Gene	ral Description of the	Material / Produ	iet	•			
	·	<del>_</del>	<del></del>	•			
	Product: Sulfur Orga				_		
Detailed Description	of Process Generat	ing or Producing	the Materi	ial / Product:	Producing	Mercaptan product	
				:			
	_	_		,			
Physical State:	🛛 Liquid	☐ Sludge		Powder			
	Solid Solid	Filter Cake		Combinatio	on ·		
			_	:		•	
Color: <u>Brown</u>	. (	dor: Strong				T.	
Specific Gravity (wa	iter=1): <u>.84</u>	Density: 7.5 lb	s/gal	4			
Does this material c	ontain any total pher	olic compounds?	Yes	⊠ No			
Does this material c	ontain any para subs	tituted phenolic c	ompounds	? 🗌 Yes [	⊠ No		
,	<b>⊠</b>		,				
Layers:	Single-phase	Multi-	-phase				
Container Type:	☐ Drum	Tote	$\boxtimes$	Truck		Other (explain)	
	Di um	rote		i	لسا	Other (explain)	
Container Size:				<u>5500 gal</u>			
_	<b>5</b> 7	<b>—</b> •••	<b>_</b>				
Frequency:	⊠ Weekly	☐ Monthly		Quarterly		Yearly	
Number of Units (co	ntainers): 2	Other:					
Proper U.S. DOT St	ipping Name:	NA1993, Co	mbustible	Liquid, n.o.s.	(Didodecyl	sulfide) 3, PG III	
Class: 3	UN/N	NA1993	· · · · · · · · · · · · · · · · · · ·	PG: III		RQ: na	
				-		•	
			1				

Flash Point	рH	N/A	N/A	Solids
>170 F	<u>neutral</u>			<u>0</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel
<1500mg/l	<u>na</u> mg/l	namg/l	namg/l	<u>∩a</u> mg/l

#### SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Didodecyl sulfide	40-55	%
sec -Dodecyl	25-40	%
n-Dodecyl Mercaptan	<10	%
Propylene tetramer	<10	%
tert- Dodecanethiol	<10	%
See attached additional componets and specs table		T

#### **SECTION 5: Safety Related Data**

If the handling of this material / product requires the use of special protective equipment, please explain. Standard PPE, also use respirator able to withstand H2S when opening dome lid.

#### SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. MSDS

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): None known

<b>SECTION 8:</b>	Material	Producer's	Certification
-------------------	----------	------------	---------------

allactied description is complete and accurate to the best of my knowled	
omissions of composition properties exist and that all known or suspected	hazards have been disclosed. I certify that the materials
tested are representative of all materials described by this document.	; :
Authorized Signature:	Date: 3 3 9
	, ·
Printed Name/Title:	•
•	
	·
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager: North Saul	
Leconical Manager / Leconical Manager	

The information contained herein is based on [ ] generator knowledge and/or [ ] analytical data. I hereby certify that the above and

Technical Manager:

Date: 3-3-9 Approved Rejected

Approval Number: 3194

2

C7 -14 sulfides and disulfides	<10	%
Dodecene	<5	%
Hydrogen Sulfide	<50	ppm

Exhibit A

SULFUR ORGANIC LIQUID PRODUCT GENERAL SPECIFICATIONS:

Specification:	ASTM:	Typical:	Min./Max.
Ash, Wt. %	D-482	<0.01	0.02 Max.
API Gravity	D-287	36.0	35 Min.
Sulfur, Wt. %	D-1552	4.25	4.25 Max.
Pour Point, Deg F.	D-97	100	120 Max.
Oil, %	~	100	99 Min.
Water, %	D-95	<b>0.00</b> a	0.5 Max.
Solids, %	D-473 0.00	0.01	0.01Max.
Flash Point, Deg. F.	D-93	>200	140 Min.



## PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	No Payment / No Charge
2.	Contamination Limits (maximum limit before surcharges apply):
	Ash < 0.5 % Flashpoint > 170 deg F No Solids. must conform with specifications
3.	Surcharge Pricing:
4.	Special Testing Requirements:
	Must pick up pre shipment sample before scheduling load. Run ash and Flash point on sample and check that material is compatible to send to CES Ograno sulfur fuels tank. Once scheduled and trailer is picked up must check H2S in headspace of trailer. Follow sampling SOP to include venting trailer for H2S. must be less than 50 ppm
5.	Treatment and Handling Protocol:
	After we have approved the material as suitable for PEAK, the material must be brought to PACES. You must contact the operations manager before you climb onto the trailer. This is very important. Then we should check the H2S levels by using the personal H2S monitors at the manway level to ensure the levels read less than 50 ppm. If the levels exceed 50 ppm on the personal monitors, we will have to pull a Kevlar bag sample on the headspace and take it to Core or Chemtex and have them perform a sulfur speciation. The levels must show H2S less than 50 ppm to be acceptable.
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



(ema

Material Safety Data Sheet

#### Arkema inc.

#### 1 PRODUCT AND COMPANY IDENTIFICATION

Thio and Fine Chemicals

Arkema Inc. 2000 Market Street

Philadelphia, PA 19103

**EMERGENCY PHONE NUMBERS:** 

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887 Medical: Rocky Mountain Poison Control Center

(866) 767-5089 (24Hrs)

Information Telephone Numbers

Phone Number

Available Hrs

**Customer Service** 

1-800-628-4453

8:30 to 5:30 EST

**Product Name** 

SULFUR ORGANIC LIQUID

Product Synonym(s)

Chemical Family

Chemical Formula Chemical Name EPA Rea Num

Product Use

Fuel Oil Cutter Stock

Mixture

#### **2 COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredient Name	CAS RegistryNumber	Typical %	OSHA	
Didodecyl sulfide	2469-45-6	40-55% By Wt.	Y	
sec-Dodecyl mercaptan	14402-50-7	25-40% By Wt.	Υ	
n-Dodecyl mercaptan	112-55-0 •	< 10% By Wt.	Υ	
Propylene tetramer	6842-15-5	< 10% By Wt.	Υ	
tert-Dodecanethiol	25103-58-6	< 10% By Wt.	Υ	
Alkenes, C8-10-branched, C9-rich	97593-01-6	< 10% By Wt.	Υ	
C7-14 sulfides and disulfides	NE	< 10% By Wt.	Υ	
Dodecene	112-41-4	< 5% By Wt.	Υ	
Hydrogen sulfide	7783-06-4	< 50PPM By Wt.	Υ	

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

This material is classified as hazardous under Federal OSHA regulation.

COMPONENTS OF THIS BYPRODUCT ARE NOT ON THE TSCA INVENTORY. THIS BYPRODUCT IS PROVIDED UNDER THE TSCA PREMANUFACTURE NOTICE EXEMPTION AT 40 CFR 720.30(G) ONLY FOR BURNING AS FUEL OR MIXING (NOT REACTING) WITH OTHER MATERIALS FOR BURNING AS FUEL.

#### 3 HAZARDS IDENTIFICATION

**Emergency Overview** 

Brown liquid with strong odor WARNING! COMBUSTIBLE LIQUID AND VAPOR. CAUSES EYE IRRITATION. CAUSES RESPIRATORY TRACT IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION.

MAY CAUSE NAUSEA, HEADACHE OR DIZZINESS.

Product Code: 000482

Revision: 7

Issued:31 OCT 2006

Page 1 of 7



Material Safety Data Sheet

#### Arkema Inc.

#### **Potential Health Effects**

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on its composition, it is anticipated to be severely irritating to the eyes and respiratory tract. This material has a strong objectionable odor that may cause nausea, headache, or dizziness. Repeated exposure may cause an allergic skin reaction. Medical conditions which may be aggravated by exposure to this material include lung disease or limited respiratory capacity.

#### 4 FIRST AID MEASURES

IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Get medical attention.

IF ON SKIN, immediately wash with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Thoroughly clean shoes before reuse.

IF SWALLOWED, do NOT induce vomiting. Give water to drink. Get medical attention immediately. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

#### 5 FIRE FIGHTING MEASURES

#### **Fire and Explosive Properties**

Auto-Ignition Temperature

NE

NE

Flash Point

>170F

Flammable Limits- Upper NE

Lower

Flash Point Method

#### **Extinguishing Media**

Use water spray, carbon dioxide, foam or dry chemical.

#### Fire Fighting Instructions

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

#### Fire and Explosion Hazards

None known.

#### **6 ACCIDENTAL RELEASE MEASURES**

#### In Case of Spill or Leak

Isolate hazard area and deny entry to unnecessary or unprotected personnel. Contain spilled liquid with sand or earth. Clean up spill immediately, observing precautions in the Personal Protection section of MSDS. Avoid runoff into storm sewers and ditches which lead to waterways.

Product Code: 000482 Revision: 7 Issued:31 OCT 2006 Page 2 of 7

ARKEMA

Material Safety Data Sheet

#### Arkema Inc.

#### 7 HANDLING AND STORAGE

#### Handling

Avoid contact with eyes. Wash thoroughly after handling. Avoid prolonged or repeated contact with skin. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

#### Storage

This material is not hazardous under normal storage conditions; however, material should be stored in closed containers, in a secure area to prevent container damage and subsequent spillage.

#### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Engineering Controls**

Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation if necessary to control exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

#### Eye / Face Protection

Where there is potential for eye contact, wear chemical goggles and have eye flushing equipment immediately available.

#### **Skin Protection**

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Wear face shield and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse contaminated skin promptly. Wash contaminated clothing and clean protective equipment before reuse. Wash skin thoroughly after handling.

#### **Respiratory Protection**

Avoid breathing vapor or mist. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

#### Airborne Exposure Guidelines for Ingredients

Exposure Limit			Value	
n-Dodecyl mercaptan				
ACGIH Sensitizer Designator	•	٠	Υ	
ACGIH TWA	•	i	0.1 ppm	
Hydrogen sulfide				
ACGIH STEL	•		15 ppm (21 mg/m3)	
ACGIH TWA	•		10 ppm (14 mg/m3)	
OSHA Ceiling PEL	-		20 ppm	
			• •	

Product Code: 000482 Revision: 7 Issued:31 OCT 2006 Page 3 of 7



Material Safety Data Sheet

#### Arkema Inc.

#### tert-Dodecanethiol

Arkema 8-hour TWA

5 ppm

-Only those components with exposure limits are printed in this section.

-Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.

-ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.

-WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.

#### 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor	Brown liquid with strong odor
pH	5 - 7
Specific Gravity	0.84
Vapor Pressure	NE
Vapor Density	NE
Melting Point	85 F
Freezing Point	NE
Boiling Point	NE
Solubility In Water	Insoluble

#### 10 STABILITY AND REACTIVITY

#### Stability

This material is chemically stable under normal and anticipated storage and handling conditions.

#### Incompatibility

There are no known incompatibilities to this product.

#### **Hazardous Decomposition Products**

None known.

#### 11 TOXICOLOGICAL INFORMATION

#### **Toxicological Information**

Data on this material and/or its components are summarized below.

#### n-Dodecyl Mercaptan

Single exposure (acute) studies indicate that this material is slightly toxic to practically non-toxic if swallowed (rat LD50 1,960 - >5,000 mg/kg) or inhaled (rat 4-hr LC50 >8-9 ppm; no deaths following exposure to saturated vapor), no more than slightly toxic if absorbed through skin (rat LD0 >2,000 mg/kg), corrosive to rabbit eyes and severely irritating to rabbit skin (24-hr exposure, PII 8.0/8.0)

Skin allergy was observed in guinea pigs following repeated exposure in some tests, but not others. A potential for irritation and allergic reactions in humans has been reported. Following repeated inhalation exposures, rats and mice exhibited eye, nasal and respiratory tract irritation and breathing difficulties, followed by death which was associated with lung damage. A repeated inhalation exposure study in mice produced microscopic liver changes. Following a longer-term inhalation exposure study, rats showed reduced growth, reduced liver and adrenal function, general congestion of the internal organs and microscopic changes in lungs, liver, kidney,

Product Code: 000482 Revision: 7 Issued: 31 OCT 2006 Page 4 of 7

Material Safety Data Sheet

#### Arkema Inc.



heart and brain. No birth defects were observed in the offspring of rats exposed by inhalation during pregnancy, even at amounts which produced significant adverse effects on the mothers. No genetic changes were observed in tests using bacteria or animal cells.

#### Paraffin

This material is neither digested nor absorbed and is considered non-toxic. When ingested, it has been reported to have a mild laxative effect.

#### 12 ECOLOGICAL INFORMATION

#### **Ecotoxicological Information**

Data on this material and/or its components are summarized below.

n-Dodecyl mercaptan

This material is practically non-toxic to Daphnia magna, rainbow trout and algae (no effect up to the limit of solubility).

#### **Chemical Fate Information**

Data on this material and/or its components are summarized below.

#### Paraffin

This material is reported to be biodegradable.

n-Dodecvi mercaptan

This material is not readily biodegradable (39.2% after 28-days). The log Pow is 6.18

#### 13 DISPOSAL CONSIDERATIONS

#### **Waste Disposal**

Incineration is the recommended method for disposal observing all local, state and federal regulations. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

#### 14 TRANSPORT INFORMATION

DOT Name

Non Bulk Domestic/ Bulk and Non bulk international:

Not Regulated

**DOT Technical Name** 

**DOT Hazard Class** 

**UN Number** 

**DOT Packing Group** 

PG

RQ

**DOT Special Information** 

Domestic Bulk shipments

Combustible liquid, n.o.s. (Didodecyl sulfide) 3; NA 1993; PGIII

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Material Safety Data Sheet

#### Arkema Inc.

## 15 REGULATORY INFORMATION

### Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate (Acute) Health Y

Fire

N

Delayed (Chronic) Health N

Reactive

Ν

Sudden Release of Pressure

Ν.

COMPONENTS OF THIS BYPRODUCT ARE NOT ON THE TSCA INVENTORY. THIS BYPRODUCT IS PROVIDED UNDER THE TSCA PREMANUFACTURE NOTICE EXEMPTION AT 40 CFR 720.30(G) ONLY FOR BURNING AS FUEL OR MIXING (NOT REACTING) WITH OTHER MATERIALS FOR BURNING AS FUEL.

#### Ingredient Related Regulatory Information:

SARA Reportable Quantities	CERCLA RQ	SARA TPQ
Dodecene ·	NE	
n-Dodecyl mercaptan	NE	
Hydrogen sulfide	100 LBS	500 LBS
Didodecyl sulfide	NE	
tert-Dodecanethiol	NE	NE
sec-Dodecyl mercaptan	NE	
Propylene tetramer	NE ,	NE
C7-14 sulfides and disulfides	NE .	NE
Alkenes, C8-10-branched, C9-rich	NE .	NE

#### SARA Title III, Section 302

This product does contain chemical(s), as indicated below, currently on the Extremly Hazardous Substance List, Section 302, SARA Title III. See Section 2 for further details regarding concentrations and registry numbers.

Hydrogen sulfide

#### Massachusetts Right to Know

This product does contain the following chemicals(s), as indicated below, currently on the Massachusetts Right to Know Substance List.

Hydrogen sulfide

tert-Dodecanethiol

#### New Jersey Right to Know

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List.

Hydrogen sulfide

Propylene tetramer

#### Pennsylvania Environmental Hazard

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard List. Hydrogen sulfide

#### Pennsylvania Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List.

Hydrogen sulfide

n-Dodecyl mercaptan

tert-Dodecanethiol

#### **16 OTHER INFORMATION**

Product Code: 000482 Revision: 7 Issued:31 OCT 2006 Page 6 of 7



Material Safety Data Sheet

Arkema Inc.

**Revision Number 7** 

#### **Revision Information**

Supercedes Revision Dated

**Revision Date** 

31 OCT 2006

08-MAR-2006

**Revision Summary** 

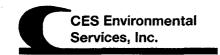
Revised section 2.

Key

NE= Not Established NA= Not Applicable (R) = Registered Trademark

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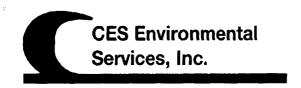
Product Code: 000482 Revision: 7 Issued:31 OCT 2006 Page 7 of 7



## PROCESS FACILITY INFORMATION (CES USE ONLY!!)

Tests for Product Recovered/Recycled (if applicable):
See Section 4
Management for Product Recovered/Recycled (if applicable);
ee section 5
S 1

7. T. Barge (Hive 183)



## Waste Pre-Acceptance/Approval Letter

Date 3/10/2009

Dear **Accounts Payable- Donna Landry** 

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3201

**Expiration Date** 3/11/2011

Generator: T.T. Barge (Mile 183)

Address: 7324 Hwy. 405

Donaldsonville, LA 70346

Waste Information

Name of Waste: Spent Sodium Hydroxide Solution

TCEQ Waste Code #: Product

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

removal of caustic from barge cleaning operations

Color: varies

**Odor:** strong

**pH**: 12

**Physical State:** 

Incompatibilities: acids

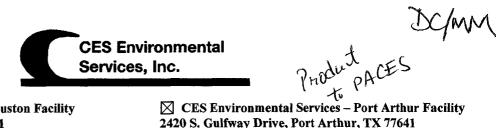
Safety Related Data/Special Handling:

caustic PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



CES Environmental Services – Houston Facility

4904 Griggs Road, Houston, TX 77021 Phone: (713) 676-1460 Fax: (713) 676-16 TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900			48	Pho	one: (713)	676-1460	Fort Arthur, TX 77641 Fax: (713) 676-1676 0079307 ISWR No: 88585
SECTION 1: Mater Company:	ial Producer I T.T. Barge (17324 Highwa	Mile 183)					
Address:			16				
City, State, Zip:	Donaldsonvi		10		19.19	TC /C	
Contact:	Chuck Metz				itle:	E/S	0100
Phone No:	225-473-822			F	ax No:	225-473-	2199
24/hr Phone:	800-969-886						
U.S. EPA I.D. No:	LAD980870	794					
State I.D.	D0022			S	IC Code:	NA	
	Information T.T. Barge Att 19368 Hwy 36	n: Accounts					
City, State, Zip:	Covington, LA	70433					
Contact:	Donna Landry		Title:				
Phone No:	225-473-8222		Fax No	p: 22	25-473-219	9	
SECTION 3: General / Poetailed Description operations	roduct: Spen	t Sodium Hy	droxide Solution	aterial	/ Product:	removal of	caustic from barge cleaning
Physical State:	<ul><li>☑ Liquid</li><li>☑ Solid</li></ul>		Sludge Filter Cake		Powder Combinatio	o <b>n</b>	
Color: varies		Odor:	strong				
Specific Gravity (was	ter=1): <u>1.11</u>	De	ensity: 9.3 lbs/gal		•		
Does this material co	•	•	<u> </u>		☑ No		A
Does this material co	ntain any par	a substitute	d phenolic compo	ounds?	☐ Yes	⊠ No	
Layers:	⊠ Single-p	hase	☐ Multi-phase	e			
Container Type: Container Size:	Drum	-	Tote		Truck		Other (explain)
Frequency: Number of Units (con	☐ Week ntainers): 4	•	Monthly Other:		Quarterly		Yearly
Proper U.S. DOT Shi	ipping Name:		Sodium Hydroxid	le Soluti	ion		
Class. 9							DO: 374
Class: 8		UN/NA: -	UN 1824		PG: II		RQ: NA

**SECTION 8: Material Producer's Certification** 

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Approval Number:

tested are representative of all materials described by this document.

Flash Point >150	<b>р</b> Н 12	N/A	N/A	Solid	=
Oil&Grease	TOC	Zine	Copper	Nickel	·
<u>O</u> mg/l	<u>0</u> mg/l	<u>O</u> mg/l	<u>O</u> mg/I	<u>0</u> mg/l	
SECTION 4: Ph	ysical and Chemic				
701		NENTS TABLE	· · · · · ·	Concentration	Units
		nsists of the following mat		anges are acceptable	or %
Sodium Hydroxic	de Solution		100		%
					-
SECTION 5: Sa	fety Related Data				
	f this material / pr handling caustic m	roduct requires the use of aterails	special protective equ	iipment, please explai	n.
SECTION 6: At	tached Supporting	g Documents			
List all document	is, notes, data, and	d/or analysis attached to t	his form as part of the	e material / product p	rofile.
SECTION 7: Inc	compatibilities			•	

The information contained herein is based on 🛛 generator knowledge and/or 🔲 analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials

Authorized Signature: Charles TME telv E15

Date: 5MARO9

Printed Name/Title: Charles TME telv E15

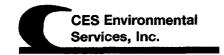
Rejected

2

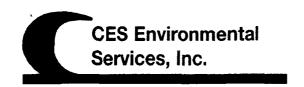


## PROCESS FACILITY INFORMATION (CES USE ONLY!!)

Base Pricing (including freight):
Concentration <23% charge \$250.00/load Concentration >23% pay customer \$150/dry ton
Contamination Limits (maximum limit before surcharges apply):  Solids - 5%
Solids - 5% Floating Hydrocarbons - 5%  Surcharge Pricing:
Surcharge Pricing:
XxXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Special Testing Requirements:
Standard sulfidic caustic evaluations for use in the NaSH Production Process: Run full titration, density, percent solids and percent oil via centrifugation, and perform sample acid reaction to ensure normal reaction. Check to ensure oil does not appear post reaction. Check odor, color, and appearance to ensure they are normal. If anything seems abnormal, contact management immediately.  Complete inbound load report if: either solids or oil exceed 1%, arrangements are made for with customer service regarding customer test for percent solids and oil via centrifugation, pH, density, full titration
Treatment and Handling Protocol:
Feedstock for NaSH into RV2/RV1. Process through reactor vessel for the recovery of sulfur compounds in the production of NaSH
Wastewater may either go to System 1 or other wastewater treatment options
Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7.	Tests for Product Recovered/Recycled (if applicable):
	See above
8.	Management for Product Recovered/Recycled (if applicable);
	See above



# Waste Pre-Acceptance/Approval Letter

Date 3/18/2009

Dear Edwin Anderson

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3222

Expiration Date 3/18/2011

**Generator:** Southwest Shipyard **Address:** 18310 Market Street

Channelview, TX 77530

Waste Information

Name of Waste: Sulfidic Caustic Solution

TCEQ Waste Code #: PRODUCT

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Processing of fuels using caustic to remove sulfides

G 1 D 1 D 1 G 10 /770

Color: Brown to Red

Odor: Sulfur / H2S smell

**pH:** 10.5-12.4

**Physical State:** 

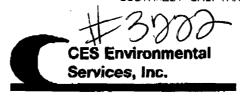
**Incompatibilities:** Metals, Oxidizing agents **Safety Related Data/Special Handling:** 

Chemical suit, rubber gloves, rubber boots, safety goggles, face shield, hard hat

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



PAGE 02/03

B Rodut

CES Environme 4904 Griggs Road, H Phone: (713) 676-14 TCEQ Industrial So U.S. EPA ID No: TX	- 676-1676 948	<ul> <li>         ⊠ CES Environmental Services — Port Arthur Facility 2420 S. Gulfway Drive, Port Arthur, TX 77641     </li> <li>Phone: (713) 676-1460 Fax: (713) 676-1676         U.S. EPA ID No: TXR000079307 ISWR No: 88585     </li> </ul>			
SECTION 1: Mater	ial <u>Producer</u> Information	1			
Company:	Southwest Shipyard, LP				
Address:	18310 Market Street				
City, State, Zip:	Channelview, TX 7753	0			
Contact:	George Sladecek	<u> </u>	Title:		· · · · · · · · · · · · · · · · · · ·
Phone No:	(281) 860-3200			(281) 860	)-3215
24/br Phone:			_ ^ ~ ~ ~ ~		
U.S. EPA I.D. No:	N/A		_		
State I.D.	NA		SIC Code:	NA	
Otale ND.					
Company: Address:	Information – 🛛 Same	as Above			
City, State, Zip:		77143			
Contact:		Title:			<del></del>
Phone No:		Fax No:			
SECTION 3: General	al Description of the Mat	terial / Product			
	roduct: <u>Suflidic Caustic</u> of Process Generating of		erial / Product: Pro	gniessoc	of fuels using caustic to remove
Physical State:	Liquid □     Solid □	Sludge [ Filter Cake	Powder Combination		
Color: <u>Brown to Red</u>	Odor:	Sulfur / H2S smell			
Specific Gravity (was	ter=1): <u>1.03</u> De	ensity: <u>8.6-9.2</u> lbs/gal			
Does this material co	ntain any total phenolic	compounds? 🔲 Yes	No No		
Does this material co	ntain any para substitute	ed phenolic compoun	ds? 🗌 Yes 🔯 🛚	No	
Layers:	Single-phase	Multi-phase			
Container Type: Container Size:	Drum	Tote 🗵	Truck 5000 gal		Other (explain)
Frequency: Number of Units (cor	$\sim$ 0	Monthly Other:	<b>Quarterly</b>	Ø	Yearly
Proper U.S. DOT Shi		Sodium Hydroxide S	olution		
Class: 8	UN/NA:	UN1824	PG: PG II		RQ:

Flash Point	рH	N/A	N/A	Solids
N/A	10.5-12.4			0%
Oil&Grease	TOC	Zinc	Copper	Nickel
NAmg/I	NAmg/I	NAmg/I	NAmg/i	NAmg/I

#### SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Water	90-95	%
Sodium Hydroxide	5-10	%
Solids	0-5	%

#### **SECTION 5: Safety Related Data**

If the handling of this material / product requires the use of special protective equipment, please explain. Chemical Suit, Rubber Gloves, Rubber Boots, Safety Goggles, Face Shield, Hard Hat

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. MSD3

#### **SECTION 7: Incompatibilities**

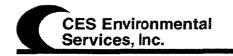
Please list all incompatibilities (if any): Metals, Oxidizing Agents

SECTION 8: Material Producer's Certification	
The information contained herein is based on 🖾 generator knowledge and/or 🔲 analytical data. I hereby certify that the abattached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or	willful
omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the m	aterials
tested are representative of all materials described by this document.	
Authorized Signature: Lay   Slades Date: 3-17-69	
Printed Name/Title: <u>GEORGE</u> SLADGUCK JENV, MANAGER	

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager: Robbur Chyd	
Date: 3-17-00 Approved Rejected	
Approval Number:	



1. Base Pricing (including freight):
304/gal- 350° Trays + F5C
Trailer Aiuse - 125 of If necessary
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
notify any of 90 solids it > 390,
4. Special Testing Requirements:
5. Treatment and Handling Protocol:
5. Treatment and Handling Protocol:  Part Arthur - Na 514 Prod.
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7. Tests for Product Recovered	d/Recycled (if applicable):	
]		
8. Management for Product Re	ecovered/Recycled (if applicable)	
8. Management for Product Re	ecovered/Recycled (if applicable)	
8. Management for Product Re	ecovered/Recycled (if applicable)	
8. Management for Product Re	ecovered/Recycled (if applicable)	
8. Management for Product Re	ecovered/Recycled (if applicable)	
8. Management for Product Re	ecovered/Recycled (if applicable)	



# **Material Safety Data Sheet**

2818603215

# Sodium hydrosulfide solution

MSDS Number 8000TDC (Revised: 02/23/2007)

Section 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

6 Pages

1.1 Product Name Sodium hydrosulfide solution
Chemical Family Inorganic salt solution
Synonyms Sodium hydrogen sulfide, sodium sulfhydrate' sodium bisulfide, sodium mercaptan. KI-300
Formula H-Na-S

1.2 Manufacturer TDC, LLC
1916 Farmerville Highway
Ruston, Louisiana 71270
Information (318) 242-5305

#### Section 2: COMPOSITION, INFORMATION ON INGREDIENTS

## 2.1 Chemical Ingredients (% by wt.)

Sodium hydrosulfide Sodium sulfide Sodium carbonate CAS #:16721-80-5 CAS #: 1313-82-2 CAS #: 497-19-8 20-45% <1.0% (Typical) <3.0% (Typical)

Water

CAS #:7732-18-5

54-79%

(See Section 8 for exposure guidelines)

#### Section 3: HAZARDS IDENTIFICATION

NFPA:

Health - :

Flammability - 2

Reactivity - 1



100 L. THE FARMEDVILLE HIGHWAY RUSTING A 71970 BOOKAPP REPAY WWW COOKING HOME COM

#### Section 3: HAZARDS IDENTIFICATION, Cont.

#### **EMERGENCY OVERVIEW**

Warning: Solution is highly alkaline

Contains hydrogen sulfide, a highly toxic gas.

Eye contact will cause marked eye irritation and possibly severe comeal damage.

Skin contact will result in irritation and possible corrosion of the skin. Ingestion will irritate/burn mouth, throat and gastrointestinal tract. Contact with stomach acid will cause hydrogen sulfide vapors to be released. Heating or acid will cause hydrogen sulfide gas to

evolve. Dilution of NaHS with water will also cause increased evolution of hydrogen sulfide.

#### 3.1 POTENTIAL HEALTH EFFECTS

EYE: Contact with the eyes will cause marked eye irritation and possibly severe corneal damage.

**SKIN CONTACT**: Contact with the skin will cause skin irritation or burning sensation. Prolonged contact will result in corrosion of the skin.

SKIN ABSORPTION: Absorption is unlikely to occur.

**INGESTION:** Ingestion will result in severe burning and corrosion of mouth, throat and the gastrointestinal tract. If the ingested material contacts stomach acid, highly toxic hydrogen sulfide gas will be evolved.

**INHALATION:** Product solution and vapors contain highly toxic hydrogen sulfide gas. Exposure to this gas causes, headaches, nausea, dizziness and vomiting. Continued exposure can lead to loss of consciousness and death..

CHRONIC EFFECTS/CARCINOGENICITY:

Not listed as a carcinogen by NTP, IARC or OSHA.

#### Section 4: FIRST AID MEASURES

- **4.1 EYES:** Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to insure thorough flushing of the entire area of the eye. Obtain immediate medical attention.
- 4.2 SKIN: Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Obtain immediate medical attention
- 4.3 INGESTION: DO NOT INDUCE VOMITING. If victim is conscious, immediately give 2 to 4 glasses of water. If vomiting does occur, repeat fluid administration. Obtain immediate medical attention.
- **4.4 INHALATION:** Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start mouth to mouth resuscitation. If heart has stopped beating, external heart massage should be applied. Obtain immediate medical attention.

#### Section 5: FIRE FIGHTING MEASURES

#### 5.1 FLAMMABLE PROPERTIES

FLASH POINT: Not flammable

METHOD USED: NA

#### Section 5: FIRE FIGHTING MEASURES, Cont.

- 5.2 FLAMMABLE LIMITS
- Hydrogen sulfide
- LFL: 4%

UFL: 44%

- 5.3 EXTINGUISHING MEDIA: Water spray or foam or as appropriate for combustibles involved in fire.
- 5.4 FIRE & EXPLOSIVE HAZARDS: Solution is non-flammable. However if these solutions are exposed to heat or acids, hydrogen sulfide will be released and may form explosive mixtures with air (see above).

Keep containers/storage vessels in fire area cooled with water spray. Heating may cause the release of hydrogen sulfide vapors.

5.5 FIRE FIGHTING EQUIPMENT: Because of the possible presence of toxic gases and the corrosive nature of the product, wear self-contained breathing appearatus, pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### Section 6: ACCIDENTAL RELEASE MEASURES

- **6.1 Small releases:** Isolate for 100 feet. Confine area to qualified response personnel. Wear proper Personnel Protective equipment (See Section 8). Confine release material by berming or diverting its path. Absorb on sand, earth or other inert dry absorbent. Do not allow into sewer, storm drains or any waterway. Oxidize residual reactive sulfides with a weak (3-5%) hydrogen peroxide solution to stop the release of toxic hydrogen sulfide. Remove contaminated soil and dispose of in accordance with all governmental regulations.
- **6.2 Large releases:** Activate Emergency Response Plan procedures. Isolate release area for 700 feet. Confine area to qualified response personnel. Wear proper Personnel Protective Equipment (See Section 8). Shut off release, if safe to do so. Dike spill area to prevent runoff into sewers, drains (potential toxic and explosive mixtures of hydrogen sulfide in confined spaces) or surface waterways (potential aquatic toxicity). Recover as much of the solution as possible. Treat remaining material as a small release (above).

#### Section 7: HANDLING and STORAGE

- **7.1 Handling:** Wear proper protective equipment (See Section 8). Avoid breathing product vapors. Avoid contact with skin and eyes. Use only in a well ventilated area. Dilute product only in enclosed containers. Wash thoroughly after handling.
- 7.2 Storage: Store in well ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store tote and smaller containers out of direct sunlight at moderate temperatures [<80° F (27° C)]. (See Section 10.4 for materials of construction)

#### Section 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

8.1 RESPIRATORY PROTECTION: If working near open container, storage vessel opening or open tank truck dome cover, wear self-contained breathing apparatus, pressure demand, MSHA/NIOSH (approved or equivalent).

#### Section 8: EXPOSURE CONTROLS, PERSONAL PROTECTION, Cont.

- 8.2 SKIN PROTECTION: Neoprene rubber gloves, chemical sult and boots should be worn to prevent contact with the liquid. Wash contaminated clothing prior to reuse. Contaminated leather shoes cannot be cleaned and should be discarded,
- 8.3 EYE PROTECTION: Chemical goggles and a full face shield.
- **8.4 EXPOSURE GUIDELINES:**

**OSHA** 

**ACGIH** 

TWA

STEL

LV___STE

Hydrogen sulfide

20 ppm (ceiling)

10 ppm (ceiling)

**8.5 ENGINEERING CONTROLS:** Use adequate exhaust ventilation to prevent inhalation of product vapors. Where feasible scrub process or storage vessel vapors with caustic solution. Maintain eyewash/safety shower in areas where chemical is handled.

#### Section 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 APPEARANCE:

May be yellow to red, to dark green to black liquid.

9.2 ODOR:

Hydrogen sulfide (rotten egg), hydrocarbon (mercaptan) odor.

9.3 BOILING POINT:

253 °F(122,8 °C) - 269 °F (131.7 °C)

9.4 VAPOR PRESSURE:

17 mm Hg @ 68 °F (20 °C)

9.5 VAPOR DENSITY: (Air = 1.0)

7,17

9.6 SOLUBILITY IN WATER: 9.7 SPECIFIC GRAVITY:

Complete 1.152 - 1.303 (9.6 - 10.9 lbs/gal)

9.8 FREEZING POINT:

0° F (-17.8° C) - 20%

9.9 pH:

56° F (13.3° C) - 45% 11.5 - 12.5

9.10 VOLATILE:

Not determined

#### Section 10: STABILITY and REACTIVITY

- 10.1 STABILITY: This is a stable material
- 10.2 HAZARDOUS POLYMERIZATION: Will not occur.
- 10.3 HAZARDOUS DECOMPOSITION PRODUCTS: Heating this product will avoive hydrogen sulfide. Fire conditions will also cause the production of sulfur dioxide. Hydrogen sulfide (4-44%) may form flammable mixtures with air. Heating to decomposition emits toxic furnes of sulfoxides and Na₂O
- 10.4 INCOMPATIBILITY: Acids will cause the release of highly toxic hydrogen sulfide. Reacts violently with diazonium salts. Sodium hydrosulfide solution is not compatible with copper, zinc, aluminum or their alloys (i.e. bronze, brass, galvanized metals, etc.). Corrosive to steel above 150° F (65.5° C). These materials of construction should not be used in handling systems or storage containers for this product (SEE Section 7.2, Storage). Dilution of NaHS with water will increase the evolution of hydrogen sulfide. Dilution should be done in an enclosed container.

#### Section 11: TOXICOLOGICAL INFORMATION

11.1 ORAL: Data not available

Section 11: TOXICOLOGICAL INFORMATION, Cont.

11.2 DERMAL: Data not available

11.3 INHALATION: INH-RAT LC₅₀: 444 ppm (hydrogen sulfide)

INH-MOUSE LC₅₀: 1,500 mg/m³ 18 minutes INH-RAT LC₅₀: 1,500 mg/m³ 14 minutes

11.4 CHRONIC/CARCINOGENICITY: No evidence available

11.5 TERATOLOGY: Data not available

11.6 REPRODUCTION: Data not available

11.7 MUTAGENICITY: Data not available

Section 12: ECOLOGICAL INFORMATION

Static acute 96 hour-LC₅₀ for mosquito fish is 206 mg/L. (Ti_m - fresh water)

LC₅₀ fly inhalation 1,500 mg/m³, 7 minutes

TL_m Gammarus 0.84 mg/L, 96 hours (hydrogen sulfide)

TL_m Ephemera 0.316 mg/L, 96 hours (hydrogen sulfide)

TL_m Flathead minnow 0.071 ~ 0.55 mg/L @ 6-24°C, 96 hour flow through bioassay (hydrogen sulfide)

TL_m Bluegill 0.0090 - 0.0140 mg/L @ 20-22°C, 96 hour flow through bioassay (hydrogen sulfide)

TLm Brook trout 0.0216 - 0.0308 mg/L @ 8-12.5°C, 96 hour flow through bioassay (hydrogen sulfide)

Section 13: DISPOSAL CONSIDERATIONS

If released to the environment for other than its intended purpose, this product contains some reactive sulfides which may be in sufficient quantity to meet the definition of a D003, hazardous waste.

Section 14: TRANSPORT INFORMATION

14.1 DOT Shipping Name: Corrosive liquids, toxic, n.o.s.

14.2 DOT Hazard Class: 8 (6.1)

14.3 UN/NA Number: UN2922 UN2949 (IMDG - over water)

14.4 Packing Group:

14.5 DOT Placard: Corrosive

14.6 DOT Label(s): Corrosive, Toxic

14.7 IMO Shipping Name: Sodium hydrosulphide solution

14.8 RQ (Reportable Quantity): 5,000 lbs (2268 Kg) 100% basis

[2.604 gal (20%) 1.019 gal (45%)]

Section

14:

14.9 RR STCC Number: 26-123-33/49-352-04 14.10 USCG Codes: Bulk SHR (sodium hydrosulfide solution) SSI (Sodium sulfide, hydrosulfide solutions, H2S greater than 15 ppm Barge but less than 200 ppm) REGULATORY INFORMATION Section 15: 15.1 OSHA: This product is listed as a hazardous material under criteria of the Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200. 15.2 SARA TITLE III: a. EHS (Extremely Hazardous Substance) List: No Yes Section 311/312, (Tier I,II) Categories: Immediate (acute) Fire Yes Sudden release N٥ Yes Reactivity No Delayed (chronic) No Section 313 (Toxic Release Report-Form R): Ċ. No d. TPQ (Threshold Planning Quantity): 15.3 CERCLASUPERFUND: 5,000 lbs RQ (Reportable Quantity) (2270 Kg) 15.4 TSCA (Toxic Substance Control Act) Inventory List: Yes D003 (See 15.5 RCRA (Resource Conservation and Recovery Act) Status: Section 13) 15.6 WHMIS (Canada) Hazard Classification: E, D1 15.7 DOT Hazardous Material: (See Section 14) Yes 15.8 CAA Hazardous Air Pollutant (HAP) No Section OTHER INFORMATION **REVISIONS:** The entire MSDS was reformatted to comply to ANSI Standard Z400.1-

TRANSPORT INFORMATION, Cont

1993.

Revised Sections 1.1, 8.3, 11, 12, 5/7/02 Revised pH range in Section 8, 6/19/02 Revised shipping info & RQ data, 1/15/03

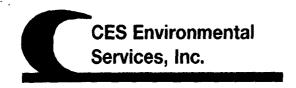
Revised Section 3, Emergency Overview & Section 10.4 to include dilution caution. 1/23/04

Revised Section 2.1, Ingredients & Section 15, added USCG Codes. 5/3/04 Revised Section14.10 (added), 15.9 (deleted), USCG shipping codes, 7/21/04.

Revised Logo and Emergency contact telephone number, 2/23/07

THE INFORMATION PUBLISHED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN COMPILED FROM OUR EXPERIENCE AND OSHA, ANSI, NFPA, DOT, ERG, AND CHRIS. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF NECESSARY SAFETY PRECAUTIONS. WE RESERVE THE RIGHT TO REVISE MATERIAL SAFETY DATA SHEETS PERIODICALLY AS NEW INFORMATION BECOMES AVAILABLE.

3232 Sochem



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# **Material / Product Approval Letter**

KIM

Date 3/23/2009

Dear Sal Amato

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3232

**Expiration Date** 3/23/2011

Producer: Sochem

Address:

## Material / Product Information

Name of Material / Product Sodium hydroxide solution

**Container Type:** 

Detailed Description of Process Generating or Producing the Material / Product:

Barge cleanings

Color: brown to red

Odor: none

**pH:** >12

**Physical State:** 

Incompatibilities: acids, oxidizing agents
Safety Related Data/Special Handling:

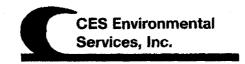
Chem suit, rubber gloves, rubber boots, safety goggles, face shield, hard hat

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



☐ CES Environmental Services – Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone: (713) 676-1460 Fax: (713) 676-1676 TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900				1	☑ CES Environmental Services – Port Arthur Facility 2420 S. Gulfway Drive, Port Arthur, TX 77641 Phone: (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID No: TXR000079307 ISWR No: 88585			
SECTION 1: Mate			mation					
Company:	-	Chem						Name of the state
Address:		. Box 1912 nzales, LA						
City, State, Zip: Contact:		Amato				Title:		
Phone No:						Fax No:		
24/hr Phone:				· · · · · · · · · · · · · · · · · · ·		-		
U.S. EPA I.D. No:	N/							
State I.D.	NA		· · · · · · · · · · · · · · · · · · ·			SIC Code:	NA	
SECTION 2: Billin Company: Address:	g Info	rmation – 🗵	Same a	s Above				
City, State, Zip:				Title:				
Phone No:				Fax No	):			
					•			
SECTION 3: Gene								
Name of Material / Detailed Description	Produ of Pr	ct: Sodiu ocess Genera	m ting or	hydroxide Producing the M	e ( lateri	al / Product: Ba	arge clear	nings
Physical State:	$\boxtimes$	Liquid		Sludge		Powder		
•		Solid		Filter Cake		Combination		
	_							
Color: Brown to Rec	<u>i</u>		Odor:	more				
Specific Gravity (wa	ater=1	): <u>1.27</u>	De	ensity: <u>10.59</u> lbs/g	al			
Does this material c	ontain	any total phe	enolic c	compounds? 🗆 Y	'es	⊠ No		
Does this material c	ontain	any para sut	stitute	d phenolic compo	ounds	i?□Yes ⊠N	lo	
Layers:	$\boxtimes$	Single-phase		☐ Multi-phas	e			
Container Type:		Drum		Tote	$\boxtimes$	Truck		Other (explain)
Container Size:						4250 gal		· · · · · · · · · · · · · · · · · · ·
		<del></del>						***
Frequency:		Weekly		Monthly		Quarterly		Yearly
Number of Units (co		-	~	. Qther:		Z 101.13		
			200	lust				
Proper U.S. DOT Si	hippin	g Name:	· · · · ·	Sodium Hydroxid	le Sol	ution		
Class: 8		UN/N	IA: ¯	UN1824		PG: PG I		RO: 1000

Flash Point	pН	N/A	N/A	Solids
>140	<u>&gt;12</u>			<u>0</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel
NAmg/I	NAmg/I	NAmg/I	NAmg/I	NAmg/I

#### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Sodium Hydroxide	>25	%
Water	26-75	%
		<del></del>

#### **SECTION 5: Safety Related Data**

If the handling of this material / product requires the use of special protective equipment, please explain. Chemical Suit, Rubber Gloves, Rubber Boots, Safety Goggles, Face Shield, Hard Hat

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.  $\underline{MSDS}$ 

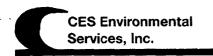
#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): Acids, Oxidizing Agents

Printed Name/Title: Sal Amato/VP

#### **SECTION 8: Material Producer's Certification**

The information contained herein is based on 🗵 generator knowledge and/or 🗆 analytical data. I hereby certify that the above and ttached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful
missions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials
ested are representative of all materials described by this document.
authorized Signature: Date: 3/23/09

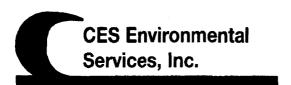


1.	Base Pricing (including freight):
	Pricing will be negotiated on a load by load basis. This must be documented in billing comments for each load
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
	Call kim with questions
4.	Special Testing Requirements:
	Must test for percent caustic by titration and specific gravity, must have no free floating oil and no solids. THIS MATERIAL MUST BE GREATER THAN 25% CAUSTIC.
5.	Treatment and Handling Protocol:
	Feedstock for NaSH
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7.	Tests for Product Recovered/Recycled (if applicable):
3.	Management for Product Recovered/Recycled (if applicable);

5250 Evergreen Solar



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# **Material / Product Approval Letter**

Date 3/30/2009

Dear Scott Rainey

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3250

Expiration Date 3/30/2011

**Producer:** Evergreen Solar **Address:** 112 Barnum Road

Devens, MA 01434

Material / Product Information

Name of Material / Product Concentrated acid

**Container Type:** 

Detailed Description of Process Generating or Producing the Material / Product:

Silicone wafers are fed through an etch line to be ethced and prepared for solar panel manufacturing. Concentrated acid is a blend of acids that etch the silicone wafer. When bath is spent them the material becomes spent acid.

Color: dark

Odor: slight

**pH**: <2

**Physical State:** 

Incompatibilities: Bases. Please refer to MSDS.

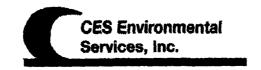
Safety Related Data/Special Handling:

PPE for concentrated acids.

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

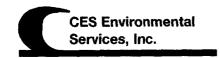
Matt Bowman, President CES Environmental Services, Inc.



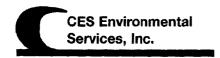
CES Environmental Services – Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone: (713) 676-1460 Fax: (713) 676-1676 TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900			2420 S. Gulfway Phone: (713) 67	y Drive, P 7 <mark>6-146</mark> 0	Services — Port Arthur Facility Fort Arthur, TX 77641 Fax: (713) 676-1676 0079307 ISWR No: 88585	
SECTION 1: Mate	rial Producer Inform	ation				
Сотрапу:	Evergreen Solar					
Address:	112 Barnum Road	·	<u></u>			
City, State, Zip:	Devens, MA 01434					
Contact:	Wayne Wirtanen		Title:	EHS Mar	nager	
Phone No:	978-266-2292	***************************************	Fax No:			
24/hr Phone:	978-266-2262					
U.S. EPA LD. No:	MAC300011012		SIC Code			
State I.D.	N/A		SIC Code:			
SECTION 2. Dans.	g Information — S	ama aa Aharra				
	Hydrocarbon Resource					
Company: Address:	3306 Poplar Run CT	o recovery				
City, State, Zip:	Houston, TX. 77059					
Contact:	Scott Rainey	Title:	Mgt			
Phone No:	713-724-8595	Fax N	**************************************	<del></del>		
***************************************				······································		
SECTION 3: Gene	ral Description of the	Material / Product				
Detailed Description be etched and prepar	Product: <u>Concentrate</u> n of Process Generati ed for solar panel man comes waster Spent	ng or Producing the N tufacturing, CAW is a b	Material / Product: Solend of acids that etch was the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta	ilicone wa the silico	afers are fed through an etch line to one wafer. When the bath is spent	
Physical State:		☐ Sludge ☐ Filter Cake	☐ Powder ☐ Combination	ı		
Color: <u>dark</u>	0	dor: <u>slight</u>	_			
1.4 to	1.5	Density: 14.5 lbs/ga	ıl			
Does this material c	ontain any total phen	olic compounds?	Yes 🛭 No			
Does this material c	Does this material contain any para substituted phenolic compounds?   Yes   No					
Layers:	Single-phase	Multi-pha	se			
Container Type: Container Size:	☐ Drum	Tote 330 gallon	Truck 5.000 ga		Other (explain)	
- was summer's "A \$\$1\$4.	477 <u>1744 - 41444 - 41444 - 41444 - 41444 - 41444 - 41444 - 41444 - 41444 - 41444 - 41444 - 41444 - 41444 - 41444 - 41444 - 41444 - 41444 - 41444 - 41444 - 41444 - 41444 - 41444 - 41444</u>	YEN MANUAL	<u> </u>		NAME OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PR	
Frequency:	Weekly	☐ Monthly	☐ Quarterly		Yearly	
• •	ontainers): 50 totes		3-4 tankers	******		
" - manufacture may not see upon the fact		Product				
	**********					
Proper U.S. DOT S	hipping Name:	RQ, Corrosive I	Liquids, Toxic, N.O.S.	(Sulfuric	Acid, Hydrofluoric Acid),	
			······································	······································		

03/13/2009 14:04 #367 P.002/002

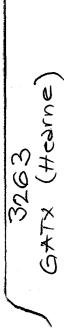
Class: 8, 6.1	UN	/NA: UN2922	PG:	II	RQ	: 100lbs
Flash Point	pH <2	N/A	N/A		Solids   <u>&lt;1</u> %	
Oil&Grease BDLmg/l	TOC BDLmg/I	Zine BDLmg/I	Copper BDLmg/		Nickel 3DLmg/I	
SECTION 4: Physi	cal and Chemical	Data		Concer	itration acceptable	Units or %
Sulfuric Acid	ar / product cousis	es of the formains m	10C1 1013	75-85%	: Acceptable	<del>  01 /8  </del>
Nitric Acid		* 10 S		1-5%		1%
Hydrofluoric Acid				1-2%		1%
Water				1-10%	<del></del>	1%
					,	
SECTION 7: Incom Please list all incom Please see MSDS SECTION 8: Mate The information con attached description omissions of compo-	hed Supporting D notes, data, and/or npatibilities patibilities (if any) rial Producer's Ce tained herein is bas is complete and a sition properties ex	r analysis attached to	this form as part  nowledge and/or [  my knowledge a  or suspected haz	Janalytical dai	ta. I hereby ce	ofile.  It if y that the above and no deliberate or willful ertify that the materials
Authorized Signatu	re: <u>Wayne</u>	Whitam		Date:	3/13/09	
Printed Name/Title	:ENUTION	imental affair	es manager			
CES USE ONLY (DO N	OT WRITE IN THIS	SPACE)				
Technical Manager:	<i>_</i>					
Date: 3-30-8	<u>'009</u> (A	pproved Rejected	ı			
Approval Number:	3250					



1.	Base Pricing (including freight):
	\$0.65/gallon + freight + FSC
2.	Contamination Limits (maximum limit before surcharges apply):
۷.	Contamination Links (maximum mint before sur charges appry).
3.	Surcharge Pricing:
4.	Special Testing Requirements:
	·
5.	Treatment and Handling Protocol:
	To be used in the Mast Process
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory C



7.	Tests for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable);





# Waste Pre-Acceptance/Approval Letter

Date 4/8/2009

Dear Ricardo Salias

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3263

Expiration Date 4/8/2011

**Generator:** GATX (Hearne) **Address:** 1401 W. Brown St.

Hearne, TX 77859

Waste Information

Name of Waste: Sodium Sulfide Solution

TCEO Waste Code #: Product

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

heel from railcars prior to cleaning RCRA empty containers

Color: amber, brown Odor: pungent, rotten egg pH: >11

**Physical State:** 

Incompatibilities: mineral acids, strong oxidizers, chlorine, aluminum, copper, and

brass alloys

Safety Related Data/Special Handling:

caustic PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

# CES Environmental Services, Inc.

Services, Inc.
4904 Griggs Road Houston

Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900 PACES MOFICE
DC/MM
Product

SECTION 1: Mater	ial Producer Inforn	nation			
Company:	GATX Rail				
Address:	1401 W. Brown St				
City, State, Zip:	Hearne, TX 77859				
Contact:	Ricardo Salias		Title:	Maintenance Manager	
Phone No:	979-279-3481		Fax No:	(979) 279-3020	
24/hr Phone:	979-220-2450		<del> </del>		
U.S. EPA I.D. No:	TXD000835207				
State I.D.	32643		SIC Code:		
SECTION 2: Billing Company: Address:	g Information – ⊠ S	Same as Above			
City, State, Zip:		(III) 4.1			
Contact:		Titl			
Phone No:		Fax	No:		
SECTION 2. Comow	al Daganintian of the	Motorial / Duodust			
SECTION 3: General	ai Description of the	: Material / Froduct			
Name of Material / P Detailed Description empty containers			Material / Product:	heel from railcars prior to c	leaning RCRA
Physical State:	<ul><li>☑ Liquid</li><li>☐ Solid</li></ul>	☐ Sludge ☐ Filter Cake	☐ Powder ☐ Combination	on	
Color: amber, brown	C	dor: pungent, rotten	egg		
Specific Gravity (wat	ter=1): <u>1</u>	<b>Density:</b> <u>8.34</u> lbs/	gal		
Does this material co	ntain any total phen	olic compounds?	Yes No		
Does this material co	ntain any para subs	tituted phenolic con	npounds? 🗌 Yes 🛛	⊠ No	
Layers:	<b>⊠</b> Single-phase	☐ Multi-pl	ase		
Container Type: Container Size:	Drum	Tote	Truck	Other (explai	n)
Frequency:	☐ Weekly	Monthly	☐ Quarterly	☐ Yearly	
Number of Units (con	ntainers): 5-10	Other:	-	-	
( )	-	2			
n Honomas		Product	21.13		
Proper U.S. DOT Shi	pping Name:	(Sodium Sulfide	Solution) Corrosi	reliquids n.o.s.	
Class: 8	UN/NA	L: UN1760	PG: II	RO:	833 gallons

Flash Point >140	pH >11	N/A	N/A	Solids 0%
Oil&Grease	TOC	Zinc	Copper	Nickel
namg/l	namg/I	namg/l	<u>na</u> mg/l	namg/l

#### SECTION 4: P vsical and Chemical Data

	GOMPONENTS PARTE	The street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of the street of th	Linits
The m	terial / product consists of the following materials	Ranges are acceptable	or %
water		88-93	%
sodium sulfide		0-12	%
sodium hydrox	le	0-12	%
mixed alkyl sul	des	<1	%
mixed disulfide	i	<1	1%
mixes alkyl me	captons	<1	%

#### SECTION 5: 5 Ifety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.

#### SECTION 6: ttached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. MSDS

## SECTION 7: scompatibilities

Please list all it compatibilities (if any):

mineral acids, s ong oxidizers, chlorine, aluminum, copper, and brass alloys

#### SECTION 8: Interial Producer's Certification

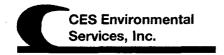
The informatio contained herein is based on  $\boxtimes$  generator knowledge and/or  $\square$  analytical data. I hereby certify that the above and attached descrit cion is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of  $\alpha$  in position properties what and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:		Date: 4/3/9
Printed Name little:	Hicordo Salias	

Technical Man ger: Pablic Rejected  Date: 4-8-19 Approved Rejected	
Approval Num er: PA - 32-63	



1.	base Fitching (menutum mengint).
	\$250/deum
•	
2.	Contamination Limits (maximum limit before surcharges apply):
	Solds: =5%
3.	Surcharge Pricing:
	Cau saies rep
	<b>'</b>
	Sancial Tarking Demonstrates
<b>4.</b>	Special Testing Requirements:
	Full theation, percent solids, test for use in Naths production
5.	Treatment and Handling Protocol:
	Use in Nails production
Ì	
<b>ó.</b>	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7.	Tests for Product Recovered/Recycled (if applicable):
	NA
•	Manager A. S. David and D. A. David and A. C. S. A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David and A. David
8.	Management for Product Recovered/Recycled (if applicable);
	NA



REVIS	SION 4: February 26, 2008	MATERIAL SAFETY	DATA SHEET	Page 1/6
1	IDENTIFICATION OF THE PRODU	JCT AND OF THE CO	MPANY	
1.1	Identification of the Product:	SODIUM SI	JLFIDE SOLUTION	
1.2	Product Code:	SSREF		
1.2	Company:	5455 Old S	chemicals & Refinery Services LLC panish Trail ( 77023, U.S.A.	
1.3	Transportation Emergency:	USA	800-424-9300 (CHEMTREC)	
1.4	Product Information:	713-428-500 713-926-36		

2	COMPOSITION/INFORMATION ON INGREDIENTS								
	<u>Substance</u>	CAS No.	% Present	Symbol(s)	R-Phrases				
	Water	7732-18-5	88 - 93	-	-				
	Sodium Sulfide	1313-82-2	0 - 12	C, N	31, 34, 50				
	Sodium Hydroxide	1310-73-2	0 - 12	Ċ	34				
	Mixed Alkyl/Aryl Sulfides	-	<1	_	-				
	Mixed Disulfides	68334-01-0	<1	_	-				
	Mixed Alkyl/Aryl Mercaptans	-	<1	-	-				

#### 3 HAZARDS IDENTIFICATION

May be corrosive to the skin, eyes and respiratory tract.

May cause burns to the skin and eyes (effects may be delayed).

May be harmful if swallowed, inhaled or absorbed the through the skin.

Aspiration hazard if swallowed (can enter lungs and cause damage).

Noxious odors due to Sulfides, Disulfides and Mercaptans are typically present in the vapour space of closed containers, barges, tanks, etc.

Will react with mineral acids liberating Hydrogen Sulfide in concentrations that may be harmful or fatal.

Will react with mineral acids liberating Hydrogen Sulfide in concentrations that may result in a flammable atmosphere. Small upper petroleum hydrocarbon layer/film with a flash point of less than 100°F may be present resulting in a potential fire hazard. However, material is not considered flammable or combustible for the purpose of meeting Hazard Communication requirements.

HMIS Ratings (Estimated)



NFPA Ratings (Estimated)



	SODIUM SULFIDE SOLUTION (SSREF)	
REVISION 4: February 26, 2008	MATERIAL SAFETY DATA SHEET	Page 2/

4	FIRST-AID MEASURES						
	In case of	swallowing:	Do not induce vomiting. If victim is alert and not convulsing, rinse mouth with water or milk and give three or more glasses of water or milk to drink. If spontaneous vomiting occurs, have affected person lean forward with head down to avoid breathing of vomitus. Rinse mouth again and give more water or milk to drink. Obtain medical attention.				
	In case of i	nhalation:	Remove affected person to fresh air. Provide oxygen if breathing is difficult. Give artificial respiration only if breathing has stopped and obtain immediate medical attention. Obtain medical attention if respiratory tract irritation develops.				
•	In case of o	contact with eyes:	Promptly flush eyes with running water for 15 minutes, including under eyelids. Obtain medical assistance.				
	In case of o	contact with skin:	Promptly remove contaminated clothing and thoroughly wash exposed area with soap and water. Continue to flush exposed area with water. Seek medical assistance if irritation or other symptoms develop.				
5	FIRE-FIGH	TING MEASURES					
5.1	Extinguishi	n <u>g media</u> :	Suitable - Dry chemical, CO ₂ or foam is recommended should fire result from petroleum hydrocarbon layer. Water spray may be used to cool or protect containers exposed to fire or heat.				
			Not suitable - Water spray may be ineffective in extinguishing fire resulting from petroleum hydrocarbon layer.				
5.2	Fire exposu	Fire exposure hazards: May release Hydrogen Sulfide when heated.					
5.3	<u>Personal protective equipment:</u> Wear Self Contained Breathing Apparatus and protective clothing appropria fire-fighting. Non-emergency personnel should be removed from the immediately.						
6	ACCIDENTAL RELEASE MEASURES						
	Remove non-essential personnel from the area. Shut off ignition sources.						
Observe any container warning labels (See Sections 14 and 15). Take precautions to avoid exposure 8).							
		aterial with dry agent (sand, vermiculite, etc.). Shovel agent and absorbed material oper disposal (See Section 13).					
7	HANDLING	AND STORAGE					
7.1	Handling:	Handle/weigh this	material under conditions of good local exhaust ventilation.				
		Avoid breathing mi	ist or aerosol, swallowing, and eye and skin contact.				
		Wear personal protective equipment (See Section 8).					
		Wash thoroughly after handling.					
7.2	Storage: Store in compatible, sealed container.						
		Store in a clean, dignition and minera	ry, well-ventilated area away from heat, direct sunlight, hot metal surfaces, sources of ll acids.				
	Keep containers tightly closed.						

# MATERIAL SAFETY DATA SHEET

Page 3/6

## SODIUM SULFIDE SOLUTION (SSREF)

8	EXPOSURE CONTROLS/PERSONAL PROTECTION						
8.1	Respiratory:	Wear respiratory protection to prevent inhalation of uncontained dusts that may be formed during handling and to prevent exposure above regulatory levels (see Section 16). A full-facepiece, SCBA is recommended for nonroutine or emergency conditions.					
8.2	Hand:	Heavy PVC or butyl ru gauntlets	bber gloves	s or 8.3	Eve:		safety glasses/side shields in with face shield.
8.4	<u>Skin</u> :	Proper work attire (i.e apron, lab coat or cove		ve shirt, long	pants, v	work shoes).	Conditions may also call for an
9	PHYSICAL AN	D CHEMICAL PROPER	RTIES				
9.1 <u>Ap</u>	oearance:	Amber, Brown Liq	uid 9	0.2 <u>Odour</u> :			Pungent, Rotten Egg
<u>На</u> 8.9	:	>11.0	9	0.4 Boiling Pt.	/range:		104°C (220°F), Approximately
9.5 <u>Fre</u>	ezing Pt./Range:	0.5°C (33°F), App	roximately				
9.6 Flash point: Aqueous \$ <37.8°C (1		Aqueous Solution <37.8°C (100°F))	, Not Flami	mable. (If pre	esent, p	etroleum hydi	rocarbon layer has a flash point
9.7 <u>Fla</u>	mmability:	See 9.6	9	.8 Autoflamm	nability:		See 9.6
9.9 <u>Ex</u> r	olosive properties	: Not Explosive	9	.10 <u>Oxidizing</u>	properti	<u>es</u> :	Not an oxidizer
9.11 <u>Va</u>	por pressure:	Not Applicable	9	.12 <u>Relative c</u>	<u>lensity</u> (I	H ₂ O = 1):	1.15 – 1.18 @ 15.6°C (60°F)
9.13 <u>Bu</u>	lk density:	See 9.12					
		Water Fat (type) Other solvents	- Not de	ous Solution etermined etermined			
9.15 <u>Pa</u>	rtition coefficient:	Log P _{o/w} (Octano	ol/water)	- Not dete	mined		
9.16 Other data: Odor Tr		Odor Threshold =	<1 ppm				
10 STABILITY AND REACTIVITY							
10.1	Conditions to av	<u>roid</u> :	High temp	eratures and	oossible	sources of ig	nition.
10.2	Materials to avo	<u>id</u> :	Mineral ac alloys.	ids, strong ox	idizing a	igents, chlorir	ne, aluminium, copper and brass
10.3	Hazardous deco	omposition products:	Oxides of	carbon may b	e releas	ed on burning	or heating to decomposition.

#### **SODIUM SULFIDE SOLUTION (SSREF)**

#### 11 <u>TOXICOLOGICAL INFORMATION</u>

Acute:

Irritant or corrosive in contact with body tissues.

Mist or aerosol is respiratory tract irritant and possibly harmful and systemic poison if inhaled.

Harmful if swallowed possibly causing severe irritation and burns of the mouth, throat and digestive tract followed by delayed effects of abdominal pain and nausea.

If released due to heating, etc., Hydrogen Sulfide vapors may cause headache, dizziness, nausea and vomiting. Prolonged exposure to elevated levels of Hydrogen Sulfide can lead to loss of consciousness, respiratory failure and death.

<u>CAS Number</u> 1313-82-2	<u>Dermal LD₅₀</u>	<u>Oral LD₅₀</u> 208 mg/kg, Rat 205 mg/kg, Mouse	Inhalation LC ₅₀ -
1310-73-2	-	-	-
Sulfides (as Methyl Sulfide)	>5 gm/kg, Rabbit	3300 mg/kg, Rat 3700 mg/kg, Mouse	31620 ug/m³, Mouse
Disulfides (as Methyl Disulfide)	-	535 mg/kg, Rat	15850 ug/m³/2H, Rat 12300 ug/m³/2H, Mouse
Mercaptans (as Methyl Mercaptan)	<u>-</u>	682 mg/kg, Rat	4420 ppm/4H, Rat 2770 ppm/4H, Mouse

Chronic:

Product and components are not listed by NTP, IARA or OSHA as carcinogens.

Product is unlikely to be a skin sensitizer.

#### 12 **ECOLOGICAL INFORMATION**

The aquatic toxicity of this product has not been determined. One component, Sodium Hydroxide, is considered highly toxic to aquatic life (Bluegill  $LC_{50} = 250 \text{ ug/L}$ , 96 H). Avoid direct or indirect discharge to bodies of water.

#### 13 DISPOSAL CONSIDERATIONS

Generators of waste material are responsible for evaluating materials for compliance with all applicable procedures and regulations. Disposal of unused materials must be in accordance with all local, state and federal regulations. Containers should be cleaned of residual product and rinsed according to all local, state and federal regulations prior to disposal.

#### 14 TRANSPORT INFORMATION

IATA Proper Shipping Name: Corrosive liquid, n.o.s., (Sodium Sulfide Solution)

DOT Proper Shipping Name: Corrosive liquids, n.o.s., (Sodium Sulfide Solution)

UN No.: 1760

Symbol:

Hazard Class: 8
Packing Group: II
Marine Pollutant: No



Hazardous Substance: This product contains Sodium Hydroxide (RQ = 1000 lbs) which is listed in 49 CFR 172.101, Appendix A as a Hazardous Substance. Solution RQ = 8,333 pounds (846 gallons) at 12% concentration.

#### SODIUM SULFIDE SOLUTION (SSREF)

#### 15 REGULATORY INFORMATION

Components listed as "dangerous" in Annex I to Directive 67/548/EEC(8)

Component or impurity Sodium Sulphide Sodium Hydroxide

Annex I Number 016-009-00-8 011-0023-00-6

Classified according to the Directives 67/548/EEC and 88/379/EEC, and their various amendments, and labeled:

**Sodium Sulfide Solution (SSREF)**Contains Sodium Sulphide (EC No. 215.211.5) and Sodium Hydroxide (EC No. 215-185-5)

Warning symbol:



Warning words:

Corrosive

#### Risk phrases:

Sodium Sulphide	R31 R34 R50	Contact with acid liberates toxic gas. Causes burns. Very toxic to aquatic organisms.
Sodium Hydroxide	R35	Causes severe burns.
Safety phrases:		
Sodium Sulphide	\$1/2 \$26 \$45 \$61	Keep locked up and out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Avoid release to the environment.
Sodium Hydroxide	\$1/2 \$26 \$37/39 \$45	Keep locked up and out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

REVISION 4: February 26, 2008	MATERIAL SAFETY DATA SHEET	Page 6/6
	SODIUM SULFIDE SOLUTION (SSREF)	

16	OTHER INFORMATION			<u></u>		<del></del>
	Occupational Exposure Levels					
	Sodium Hydroxide	US (OSHA) US (ACGIH) US (NIOSH)	2 m 2 m 10 r	g/m ³ , 8-hour TWA g/m ³ , Ceiling ng/m ³ , IDLH		
	Dimethyl Sulfide (Reference)	US (ACGIH)	10 բ	opm, 8-hour TWA		
	Ethyl Mercaptan (Reference)	US (OSHA) US (ACGIH) US (NIOSH)	25 mg/m³ (10 ppm), Ceiling 0.5 ppm, 8-hour TWA 500 ppm, IDLH			
	SARA Title III Information	Sec 302 CERCLA RQ (pounds)	Sec 302 EHS TPQ (pounds)	Sec 311/312 Category	Sec 313 Toxic Chemical	Sec 313 Category
	Product	8333 (Max)	(pourido)	Acute	Oriomioai	
	Sodium Sulfide		Acute Reactive			
	Sodium Hydroxide	1000		Acute Reactive		
	WHMIS:	<u>CAS N</u> 1313- 1310-	82-2	<u>Rating</u> E, D1B E		
	Inventories:	<u>CAS N</u> 1313- 1310- 7732- 68334	82-2 73-2 18-5	TSCA DSL Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	<u>E</u>	INECS Yes Yes Yes Yes

Intended Uses:

For industrial use only. No other use is intended.

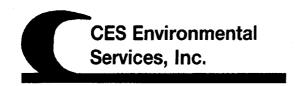
Revisions:

Revisions are indicated by 20% shading.

The format of this Safety Data Sheet conforms to the requirements of EC Directive 91/155/EEC.

The information on this form is furnished solely for the purpose of enabling those who transport, handle or use our products to ensure the safety and health of their employees and to comply with various laws and regulations (federal, state and local). This information is offered in good faith and is believed to be accurate. Merichem Chemicals & Refinery Services LLC, however, makes no guarantee or warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use hereof.

3273 Dana Container



# Waste Pre-Acceptance/Approval Letter

Date 4/14/2009

Dear Ruben Fernandez

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3273

Expiration Date 4/14/2011

**Generator:** Dana Container **Address:** 902 Sens Road

La Porte, TX 77572

Waste Information

Name of Waste: Caustic Heels TCEQ Waste Code #: PRODUCT

**Container Type:** 

**Detailed Description of Process Generating Waste:** Removal of heels from corrosive trailer prior to cleaning.

Color: varies

Odor: mild

**pH:** >12.5

**Physical State:** 

Incompatibilities: Metals, Oxidizing Agents Safety Related Data/Special Handling:

Chemical Suit, Rubber Gloves, Rubber Boots, Safety Goggles, Face Shield, Hard Hat

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



## CES Environmental Services, inc.

281-470	1237U
300	V
Pos	$\supset K$
1.	
	(A) TR

TCEQ Industrial So U.S. EPA ID No: TX			☑ CES Environmental Services – Port Arthur Fact 2420 S. Gulfway Drive, Port Arthur, TX 77641 Phone: (713) 676-1460 Fax: (713) 676-16 U.S. EPA ID No: TXR000079307 ISWR No: 88585				(713) 676-1676			
SECTION 1: Mater	ial Prod	ncer Inform	ation					,		
Company:		Container			_				'	
Address:	902 S	ens Road								
Clty, State, Zip:		rte, TX 7757	1							
Contact:		Cuellar				_ Title:				
Phone No: 24/br Phone:	(832)	362-8676				_ Fax No		(281) 47	0-2570	
U.S. EPA I.D. No:	TYP	000011155	<u></u>			_				
State I.D.	41563					_ SIC C	de:	NA		
	Dana Co	ntainer	ame g	s Above			<u>.</u>			
	PO Box									
		, TX 77572 emandez			Title:					
	(281) 47				Fux No:	(281) 4	70-2570	<u> </u>		<del></del>
	(232) 41	1 7700	_		PHA IQ.	(201)	70-2071			
Name of Material / P Detailed Description cleaning. Physical State:	of Proc	ess Generati	ng or	Producin Sludge Filter Ca		□ Powde			f heels from con	rosive trailer prior t
Color: Varies		0	dor: ]	Mild		_			•	
Specific Gravity (was	ter=1);	9-1.3	De	nsity: _ lbs	/gal					
Does this material co	ntain er	ıy total phen	olic c	ompounds	i? 🗌 Yes	⊠ No				
Does this material co	ntain ar	y para subsi	ituted	l phenolic	compoun	da? 🗌 Yo	<b>x</b> 🗵	No		
Layers:	⊠ Sí	ngle-phase		☐ Mui	ti-phase					
Container Type: Container Size:		Drum 55 gal		Tote		True	k -		Other (expla	in)
Frequency:		Weekly	$\boxtimes$	Monthly		] Quar	terly	×	Yearly	
	Inmine N		P	MODUL Corrosive	Liquids, N	.O.S.	····			
Proper U.S. DOT Shi	ւհեւռե ւ	MITTOL								
Proper U.S. DOT Shi Class: 8	hbug i	UN/NA	_	UN1760		PG:	PG I	7	RQ:	100

Flash Point >140	pH >12.5	N/A	N/A	Solids 0-2%
Oll&Grease	TOC	Zinc	Copper	Nickel
NAmg/I	NAmg/I	NAmg/I	NAmg/l	NAmg/l

#### SECTION 4: Physical and Chemical Data

	現代 1 大学 できれ かっぱん ないしょ	<b>一</b>
The material / product consists of the following materials	Ranges are acceptable	or %
Sodium Hydoxide	15-50	%
Hydrogen Peroxide	30-80	%
Water	60-80	%

#### SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain. Chemical Suit. Rubber Gloves. Rubber Boots. Safety Goggles, Face Shield. Hard Hat

#### SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): Metals, Oxidizing Agents

SECTION 8: Material Producer's Certification
The information contained herein is based on generator knowledge and/or analytical data. I hereby certify that the above an attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the material tested are representative of all materials described by this document.  Authorized Signature:  Date: 4-13-09  Printed Name/Title: Cleaning Facility Mgr.

Technical Manager Collum This space)  Date: 4-14-09 Approved Rejected	
Approval Number:	



### PROCESS FACILITY INFORMATION (CES USE ONLY!!)

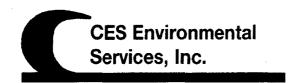
1.	Base Pricing (including freight):
	\$180 / DM
2,	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
٠.	Martin RV Vicinie.
	·
	·
İ	
4.	Special Testing Requirements:
	Standard sulfidic caustic evaluations for use in the NaSH Production Process: Run full titration, density, percent solids and
	percent oil via centrifugation, and perform sample acid reaction to ensure normal reaction. Check to ensure oil does not
	appear post reaction. Check odor, color, and appearance to ensure they are normal. If anything seems abnormal, contact
	management immediately.
	Complete inbound load report if: either solids or oil exceed 1%, strangements are made for with customer service regarding
١	customer surcharges. If any of these conditions exist, contact customer service immediately.
5.	Treatment and Handling Protocol:
 [	Feedstock for NaSH into RV2/RV1. Process through reactor vessel for the recovery of sulfur compounds in the production
	of NaSH
-	Wastewater may either go to System 1 or other wastewater treatment options
L	
6.	Treated Wastewater Discharge Subcategory:
	Subcategory A Subcategory B Subcategory C
L	



## PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):					
i						
i						
8.	Management for Product Recovered/Recycled (if applicable):					

Poramount Petroleum Comprestion



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

**pH:** >12.5

## Waste Pre-Acceptance/Approval Letter

Date 5/26/2009

Dear Nancy Girten

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3341

Expiration Date 5/27/2011

Generator: Paramount Petroleum Corporation - Long Beach

Address: 2400 E Artesia Blvd

Long Beach, CA 90805

Waste Information

Name of Waste: Spent Sulfidic Caustic

TCEQ Waste Code #: Product

Container Type:

**Detailed Description of Process Generating Waste:** 

removal of sulfide compounds from scrubber

Color: varies Odor: rotten eggs

**Physical State:** 

Incompatibilities: strong acids

Safety Related Data/Special Handling:

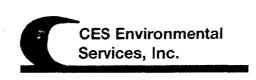
caustic PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.





4904 Griggs Road, Phone: (713) 676-1 TCEQ Industrial Sous, EPA ID No: T	Houston, TX 77021 460 Fax: olid Waste Permit N	(713) 676-1676 To: 30948	2420 S. Gulfway Drive, Port Arthur, TX 77641 Phone: (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID No: TXR000079307 ISWR No: 88585				
SECTION 1: Mate	rial Producer Infor	mation					
Company:		eum Corporation - Long	Beach				
Address:	2400 E Artesia B	vđ					
City, State, Zip:	Long Beach, CA	90805					
Contact:	Nancy Girten		Title:		mental Engineer		
Phone No:	562-748-4698		Fax No:	562-529	9-8061		
24/hr Phone:	562-984-6486						
U.S. EPA I.D. No: State I.D.	CAL000313345		SIC Code:	2911			
State 1.D.			Sic Code.	2911			
SECTION 2: Billing	g Information – 🖂	Same as Above					
Company:							
Address:							
City, State, Zip:				<u> </u>			
Contact:							
Phone No:		Fax N	0:				
Physical State:  Color: varies  Specific Gravity (wa	Product: Spent Sulf of Process General  Liquid Solid  ter=1): 1.03	dic Caustic	Powder Combination		f sulfide compounds fron	<u>1 scrubber</u>	
Does this material co	ntain any para sub	stituted phenolic compo	ounds? 🗌 Yes 🛛 🗵	] No			
Layers:	Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Sing	☐ Multi-phas	se				
Container Type:	☐ Drum	☐ Tote		П	Other (explain)		
Container Size:			5000 gal	-	(F)		
Continue Disc.	<del></del>		<u>55000 gai</u>				
-	<u> </u>			<del></del>			
Frequency:	Weekly	Monthly	Quarterly		Yearly		
Number of Units (cor	ntainers): <u>2-3</u>	Other:					
		Product					
Proper U.S. DOT Shi	pping Name:	Sodium Hydroxid	le Solution				
_					D.O.		
Class: 8	UN/N	<b>A:</b> UN1824	PG: II		RQ:		

Flash Point	pН	N/A	N/A	Solids
<140	>12.5			< <u>0.5</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel
sheenmg/l	NAmg/I	NAmg/I	NAmg/l	NAmg/l

#### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE  The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %	
Sodium Hydroxide	2-10	%	
Water	98-90	%	
Sulfides	<2	%	

#### **SECTION 5: Safety Related Data**

If the handling of this material / product requires the use of special protective equipment, please explain. gloves, face shield, respirator,

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

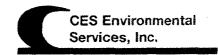
Strong acids

#### **SECTION 8: Material Producer's Certification**

Printed Name/Title: Nancy Girten/Environmental Engineer

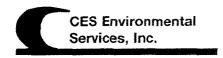
The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\boxtimes$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager: Lehmellya	
Date: 5-21-09 Approved Rejected	
Approval Number:	



### PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$0.40 per gallon FOB Port Arthur
2.	Contamination Limits (maximum limit before surcharges apply):
	<0.5% solids. Minimum 2% NaOH concentration
3.	Surcharge Pricing:
	\$0.02 per % solids in excess of 0.5%
4.	Special Testing Requirements:
	Run through Standard Spent Caustic Sampling tests: pH, % NaOH by titration, metals, TOC, phenol
	Call Matt / Joy if any questions.
ι	
5.	Treatment and Handling Protocol:
	Process to RV1
L	i .
6.	Treated Wastewater Discharge Subcategory:
Γ	
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
6.	



### PROCESS FACILITY INFORMATION (CES USE ONLY!!)

	Tests for Product Recovered/Recycled (if applicable):
	See section 4
i	
8.	Management for Product Recovered/Recycled (if applicable);
8.	Management for Product Recovered/Recycled (if applicable): see section 5
8.	
8.	
8.	

Asramount Petroleum Cappration



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

**pH:** >12.5

## Waste Pre-Acceptance/Approval Letter

Date 5/26/2009

Dear Nancy Girten

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3342

Expiration Date 5/27/2011

Generator: Paramount Petroleum Corporation

Address: 14700 Downey Ave

Paramount, CA 90723

Waste Information

Name of Waste: Spent Sulfidic Caustic

TCEQ Waste Code #: Product

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

removal of sulfide compounds from scrubber

Color: varies Odor: rotten eggs

Physical State:

Incompatibilities: strong acids

Safety Related Data/Special Handling:

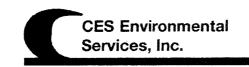
caustic PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



☐ CES Environmental Services – Houston Facility



As Product

Phone: (713) 676-1 TCEQ Industrial S	Houston, TX 77021 460 Fax: (713) 676-1676 olid Waste Permit No: 30948 XD008950461 ISWR No: 30900	Phone: (713)	2420 S. Gulfway Drive, Port Arthur, 1 X 7/641 Phone: (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID No: TXR000079307 ISWR No: 88585			
SECTION 1: Mate	rial Producer Information					
Company:	Paramount Petroleum Corporation		·			
Address:	14700 Downey Ave	was a second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of				
City, State, Zip:	Paramount, CA 90723					
Contact:	Nancy Girten	Title:	Environmental Engineer			
Phone No:	562-748-4698	Fax No:	562-529-8061			
24/hr Phone:	562-748-4711		<del></del>			
U.S. EPA I.D. No: State I.D.	CAD008371098	SIC Code:	2911			
SECTION 2: Billing Company: Address:	g Information – 🛛 Same as Above					
City, State, Zip:						
Contact:	Title	<b>:</b>				
Phone No:	Fax	No:				
Name of Material / I	Product: Spent Sulfidic Caustic of Process Generating or Producing the	Material / Product:	removal of sulfide compounds from scrubber			
Physical State:	<ul><li>☑ Liquid</li><li>☐ Sludge</li><li>☐ Solid</li><li>☐ Filter Cake</li></ul>	☐ Powder ☐ Combination	n			
Color: varies	Odor:					
Specific Gravity (wa	ter=1): <u>1.03</u> <b>Density:</b> <u>8.6-9.2</u> lb	os/gal				
Does this material co	ontain any total phenolic compounds?	Yes No				
Does this material co	ntain any para substituted phenolic com	pounds? 🗌 Yes 🛭 🗵	No			
Layers:	⊠ Single-phase ☐ Multi-pha	ase				
Container Type: Container Size:	Drum Tote	⊠ Truck 5000 gal	Other (explain)			
Frequency:	Weekly Monthly	Quarterly	☐ Yearly			
Number of Units (cor	•	set conditions	a curry			
ramper of Chies (cor	Product	SOL CONTRILIONS				
Proper U.S. DOT Shi	pping Name: Sodium Hydrox	ide Solution				
Class: 8	UN/NA: UN1824	PG: II	DO.			
	OIVITAL OINIOZT	rG; II	RQ:			

Flash Point	pН	N/A	N/A	Solids	
<140	<u>&gt;12.5</u>			<u>&lt;0.5</u> %	
Oil&Grease	TOC	Zinc	Copper	Nickel	
sheenmg/l	<u>NA</u> mg/l	NAmg/l	NAmg/l	NAmg/l	ļ

#### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE The material / product consists of the following materials	Concentration  Pages are accentable	Units or %	
Sodium Hydroxide	Ranges are acceptable	%	
Water	98-90	1%	
Sulfides	<2	%	

#### **SECTION 5: Safety Related Data**

If the handling of this material / product requires the use of special protective equipment, please explain. gloves, face shield, respirator,

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

Strong acids

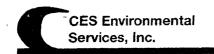
#### **SECTION 8: Material Producer's Certification**

Authorized Signature: Manufallutter

Printed Name/Title: Nancy Girten/Environmental Engineer

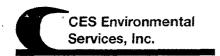
The information contained herein is based on 🗵 generator knowledge and/or 🖾 analytical data. I hereby certify that the above	and
attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or will	llful
omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the mater	rials
tested are representative of all materials described by this document.	

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager: Kerbhur Thy An	
Date: 5-21-09 (Approved) Rejected	
Approval Number:	



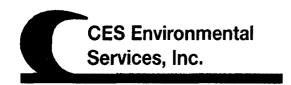
## PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$0.40 per gallon FOB Port Arthur
•	
2.	Contamination Limits (maximum limit before surcharges apply):
	<0.5% solids. Minimum 2% NaOH concentration
3.	Surcharge Pricing:
	\$0.02 per % solids in excess of 0.5%
<b>4.</b>	Special Testing Requirements:
	Run through Standard Spent Caustic Sampling tests: pH, % NaOH by titration, metals, TOC, phenol
	Call Matt Joy it any quest; as
5.	Treatment and Handling Protocol:
	Process to RV1
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



#### PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
	See section 4
_	
8.	Management for Product Recovered/Recycled (if applicable):
	see section 5



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## **Material / Product Approval Letter**

Date 6/15/2009

Dear Michael Romeo

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3369

Expiration Date 6/12/2011

**Producer:** Eagle Construction & Environmental Services

Address: 1700 North 6 Street

La Porte, TX 77571

Material / Product Information

Name of Material / Product Sodium hydroxide solution

**Container Type:** 

Detailed Description of Process Generating or Producing the Material / Product:

Unused sodium hydroxide solution

Color: water white Odor: none pH: >12

**Physical State:** 

Incompatibilities: acids, oxidizing agents Safety Related Data/Special Handling:

Chem suit, rubber gloves, rubber boots, safety goggles, face shield, hard hat

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

# 3369 PACES 98/mm

9-9.5

2842

3312

V No

4959

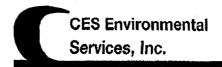
2843

4953

lbs / gal

2851

9511



CES Environmental Services – Houston Facility □ CES Environmental Services – Port Arthur Facility 4904 Griggs Road, Houston, TX 77021 2420 S. Gulfway Drive, Port Arthur, TX 77641 Phone: (713) 676-1460 Fax: (713) 676-1676 Phone: (713) 676-1460 Fax: (713) 676-1676 TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXR000079307 ISWR No: 88585 U.S. EPA ID No: TXD008950461 ISWR No: 30900 **SECTION 1: Material Producer Information** 1.-P.W. 6 Company: Address: City, State, Zip: Contact: Title: Phone No: Fax No: 24/hr Phone: U.S. EPA LD. No: SIC Code: State I.D. SECTION 2: Billing Information – Same as Above Company: Address: City, State, Zip: Contact: Title: Phone No: Fax No: SECTION 3: General Description of the Waste Name of Waste: Sodium hydroxide solution Detailed Description of the Process Generating Waste: Unused sodium hydroxide solution **✓** Liquid Sludge Powder Physical State: Filter Cake Solid Combination water white Color: Odor: none

Density:

2893

✓ No

V No

2899

2841

2911

Yes

2835

2896

Other (explain)

✓ No

☐ Yes

2833

2892

Truck

Yes

2824

2891

Multi-Phase

V

□ D002 □ D003

is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF)

2879

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

Tote

2822

2876

Specific Gravity (Water=1):

2813

2865

Container Type : 🔄

Container Size:

Number Of Units:

2816

2869

2812

2861

Layers:

Does this material contain any total phenolic compounds?

2819

2873

Does this material contain any para substituted phenolic compounds?

2874

✓ Single-Phas

Drum

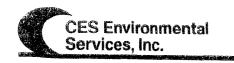
1000

Is this a USEPA "Hazardous Waste" per 40 CFR 261.3?

Characteristic for Toxic M	etals: 🔲 D004	☐ D00	05 🗌 D006		D007	
	□ D008	☐ D00	09 🗌 D010	I	D011	
Characteristics for Toxic (	Organics: D012 thr	u D043 (pl	ease list all tha	t apply)		erent et engaget false i kanang kan ang kanan kenana kanang kanang terbesah kenang terbesah kenang kenang kanan
Is this an "F" or "K" Lister	l waste or mixed v	vith one?	Yes	<b>✓</b> No		7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
If "Yes", then please li	st ALL applicable o	odes:	Marine and an arriver of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of 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Is this a commercial produ 261.33(e) or (f)?	uct or spill cleanup	that would	d carry a "U" or	"P" was	te code under 40 CFR	☐ Yes ☑ No
If "Yes", then please li	ist ALL applicable	codes:				
Texas State Waste Code	No :	Product	CARLOS CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONT			
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Flash Point	pН		Reactive Sulf		Reactive Cyanides	Solids
>140	>12		na	mg/l	na mg	// 0 %
Oil and Grease	тос		Zinc		Copper	Nickel
na mg/l	na	mg/l	2.1	mg/l	5.87 mg	/I55mg/
SECTION 4: Physical and Ch	emical Data					
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	sodium hydi	oxide			>25	i
	water				25-7	5 %
SECTION 5: Safety Related I If the handling of this was			dal avataativa	. aurinma	nt places avalain	
Chem suit, rubber gloves, i	•	•	•		iii, piease expiaiii.	
,,,		7 0 - 00 7				
SECTION 6: Attached Suppo	orting Documents	***************************************				
List all documents, notes	, data, and/or ana	ılysis attac	ched to this for	m as pa	rt of the waste approva	ıl package.
none						
SECTION 7: Incompatibilitie		**********				
Please list all incompatib acids, oxidizing agents	uities (if any):					
acros, extensing agente						
SECTION 8: Generator's Kno	owledge Documenta	ation				
Laboratory analysis of the following generators known	e hazardous was		eristics, listed	below, V	VAS NOT PERFORMED	based upon the
TCLP Metals :	X					
TCLP Volatilies :	<u>x</u>					
TCLP Semi-Volatiles :	×					
Reactivity:	<u>x</u>					
			2			

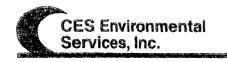
COHO	sivity: <u>X</u>
lgnital	bility: <u>x</u>
	ON 9: Waste Receipt Classification Under 40 CFR 437
Is this	material a wastewater or wastewater sludge?   YES V NO
If 'YES	S', complete this section
PLEAS	SE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
	s Subcategory: Subpart A
	Spent electroplating baths and/or sludges
	Metal finishing rinse water and sludges
	Chromate wastes
	Air pollution control blow down water and sludges
	Spent anodizing solutions
	Incineration wastewaters
	Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phosph
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
	ubcategory: Subpart B
	Used oils
	Oil-water emulsions or mixtures
	Lubricants
	Coolants
	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products Oil spill clean-up
П	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
	Off-specification fuels
	Underground storage remediation wastes
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
Organ	nics Subcategory Subpart C Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bering wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesive and/or epoxies formulation
	Wastewater from organic chemical product operations

Tank clean-out from organic, non-petroleum sources	
(1) If the waste contains oil and grease at or in excess of 100 mg/L, the was	te should be classified in the oils subcategory
(2) If the waste contains oil and grease less than 100 mg/L, and has any of excess of the values listed below, the waste should be classified in the n	
Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L	
(3) If the waste contains oil and grease less than 100 mg/L, and does not have or nickel above any of the values listed above, the waste should be class	ave concentrations of cadmium, chromium, copper, sified in the organics subcategory.
☐ Metals Subcatego	
☐ Oils Subcatego	
☐ Organics Subcategory	
SECTION 10: Additional Instruction	
If you cannot determine the correct subcategory in Section 9 and you did not Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a concentrations. This will be prior to acceptance. The generator will be response	mmercial laboratory a sample to determine these
The information contained herein is based on  generator knowledge above and attached description is complete and accurate to the best of deliberate or willful omissions of composition properties exist and that disclosed. I certify that the materials tested are representative of all materials.	my knowledge and ability to determine that no all known or suspected hazards have been
Authorized Signature	Date: 6/11/89
Printed Name / Title: Michael Kome D	NI, Name and address account of the
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information :
Compliance Officer: Roublus Thy	
Date: 6-15-09 Status: Approved Rejected	
Approval Number: 3369	
l .	



# PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
No cost/No pay FOB PACES.
V
2. Contamination Limit (maximum limit before surchages apply):
Must be water-white, free of solds, >25% Canotic. No free-floods)
oils.
. Surcharge Pricing:
Special Testing Requirements:
I shall by distration, color, clarity, pt
Treatment and Handling Protocol:
. Treatment and Handling Protocol:  Use in fresh caustic tank for Nast protoction
Use in fresh canonic forme for Nain prosection
S. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

	See Section4	
Q Manage	amont for Draduct Docayard/Daguelad (if applicable)	
O. IVIATIABE	ement for Product Recovered/Recycled (if applicable)	
O. Ivialiage	Su Section 5'	
O. IVIANIAGE		
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# CES Environmental Services, Inc.

*259 4

Bill Of Lading #:

88795

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Cifgo Refinery (Cifgo - Lake Charles, LA) Naphthenic Cauetic Recycling

Original - Shipper Provided Short Form Straight Bill of Lading - Not Negotiable - Domestic

 SHIPPED FROM:
 PO #4504854067

 Citgo Refinery
 11a) PA-2641

 4401 LA Hwy 108
 11b)

 Lake Charles:
 LA 70665
 11c)

 (337) 708-6344
 11c)

The property described below, in apparent good order, except as noted (content and condition of packages unknown), marked, consigned, and destined as indicated below, which said center (the word center being understood throughout this as meaning any person or corporation authorized to be in passession of the property under the contract) agrees to carry to its unusual place of delivery at said destination, if on its route, otherwise to delive to another carrier on the route to said destination. This Bill of Lading is a receipt for goods, it is not of itself a contract of carriage. It is mutually agreed, as to each carrier of all or as to any said over all or any portion of said route to destination, and as to each party at any time interested in ail or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract between shaper and center or intermediary.

For payment: Charges to be billed to Shipper or the "Billed to" party are set forth in the governing contract with Shipper. No charges other than those contained therein may be billed to Shipper or the "Billed to" party without prior written consent of Shipper. The extra copy of this Bill of Lading, furnished at the time of shipment, must be attached to the freight bill submitted to Shipper or the "Billed to" party and sent to:

#### CONSIGNED TO:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

**CARRIER:** 

**CES Environmental (Port Arthur)** 

2420 Gulfway Dr.

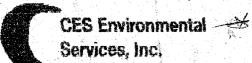
Port Arthur, TX 77640

This is to certify that the product stated below are properly classified, described, pickaged, marked and labeled and is in proper condition for transportation according to the applicable regulations of the Department of Transportation of this Shipment moves between to ports by a carrier by water, the law requires that the Bill of Lading shall state whether it is "carrier's or shipment weight."

Intermodal Certificate: All Information required by Federal Highway Administration regulations at 49 CFR 390.546 Implementing the Intermodal Safe Container Act of 1992 is set forth on the face of this bill of lading. The shipper name herein is the tendering party.

Haz	Com	leiner -	Total	Unit	Description of Materials, Special Marks, an	d Exceptions
	No.	Туре	Quantity	₩t/Voi	를 하는 물론으로 보고 있다면 시간에게 모델하여 있는 생활이 되고 하는 사람들은 사람들은 사람들은 사람들이 있다.	
Yes	1	TT	42880	) P	; ≳ ⊲RQ< Corrosive liquids, n.o.s. (naphthenic ca	ustic), 8, UN1760, PGII
	***************************************			77.		
*******	***************************************			<del>~~~</del>		
		Chao O				
SNI	pper:	Carro M	efinery	***************************************	A fef	7 15-00
Per	* *				Signature: Tarifful lates	≥ Date : 7-/5-09
~~~	#	ES Env	ironmenl	al (Por	t Arthur)	
- 68						
P	3 TT	50×	J-70	~ 5	Signature:	Date: 7-15-09
P	7				Signature :	Date : 7-15-09
Pa bec	eiving	Facilit	y:CES	Environ	mental (Port Arthur)	Date: 7-15-09
Pa bec	eiving	Facilit	y:CES	Environ	mental (Port Arthur)	
Pa bec	eiving	Facilit	y:CES	Environ		Date: 7-15-09 Date: 7-17-09

I tem #5



¥ 260×

Bill Of Lading #:

88796

Folder ID :

Citgo Refinery (Citgo - Lake Charlee, LA)

Maphinenic Caustic Recycling

Original – Shipper Provided Short Form Straight Bill of Lading – Not Negotiable – Domestic

FRAN

 SHIPPED FROM:
 PO #4504854067

 Citgo Refinery
 11a) PA-2641

 4401 LA Hwy 108
 11b)

 Lake Charles , LA 70665
 11c)

 (337) 708-6344
 11c)

The properly described below, in apparent good order, except as noted (content and condition of packages unknown), marked, consigned, and destined as indicated below, which said canter (the word carrier being understood throughout this as meaning any person or corporation authorized to be in possession of the properly under the contract) agrees to carry to its unusual piece of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. This Bill of Lading is a receipt for goods, it is not of itself a contract of carriage, it is mutually agreed, as to each carrier of all or as to any said over all or any portion of said route to destination, and as to each party at any time interested in all or any of said properly, that every service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract between shipper and carrier or intermediary.

For payment, Charges to be billed to Shipper or the "Billed to" party are set forth in the governing contract with Shipper. No charges other than those contained therein may be billed to Shipper or the "Billed to" party without prior written consent of Shipper. The extra copy of this Bill of Lading, furnished at the time of shipment, must be attached to the freight bill submitted to Shipper or the "Billed to" party and sent to:

CONSIGNED TO:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

CARRIER:

CES Environmental (Port Arthur)

2420 Guffway Dr.

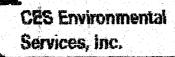
Port Arthur, TX 77640

This is to certify that the product stated below are properly classified, described, packaged, marked and labeled and is in proper condition for transportation according to the applicable regulations of the Department of Transportation, if this Shipment moves between to ports by a carrier by water, the law requires that the Bill of Lading shall state whether it is "carrier's or shipper's weight."

Intermodal Dertificate: All information required by Federal Highway Administration requiations at 49 CFR 390.546 Implementing the intermodal 8afe Container Act of 1992 is set forth on the face of this bill of lading. The shipper regret herein is the tendering party.

Haz	Cont No.	ainer Type	Total Quantity	Unit Wt/Vol	Description of Materials, Special Marks, and Exceptions
Yes	1	7 2F	36450) P	RQ< Corrosive liquids, n.o.s. (naphthenic caustic), 8, UN1760, PGII
				1	
 ihip	oer :	Citgo R	efinery		Santa
			The second (in the second second	uca popularia posição (Signature : 1 (2012) Slukeur 6/57 Date : 17-16-09
arri	er 🔾	ES Env	ironmen	tal (Po	rt Arthur)
er :		200	= F2 11		Signature : Date :
lece	iying	Facilit	y:CES	Enviro	nmental (Port Arthur),
63	Joh	ustone.	Malec	he	nmental (Port Arthur), Signature: 7-17-09

Than #5



Bill Of Lading #:

88982

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3 UIU	107	11.	-

Citgo Refinery (Citgo - Lake Charles, LA) Naphthenic Caustic Recycling

Original - Shipper Provided Short Form Straight Bill of Lading - Not Negotiable - Domestic

 SHIPPED FROM:
 PO #4504854067

 Citgo Refinery
 11a) PA-2641

 4401 LA Hwy 108
 11b)

 Lake Charles:
 LA 70665
 11c)

 (337) 708-6344
 11c)

The property described below, in apparent good order, except as noted (content and condition of packages unknown), marked, consigned, and destined as indicated below, which said center (the word center being understood throughout this as revening any person or corporation authorized to be in possession of the property under the contract) agrees to carry to its unusual place of delivery at said destination, if on its rouge, although to another carrier on the route to said destination. This Bill of Lading is a receipt for goods, it is not of itself a contract of carriage. It is maintaily agreed, as to each party at any time interested in ail or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract between shipper and carrier or intermediary.

For payment. Charges to be billed to Shipper or the "Billed to" party are set forth in the governing contract with Shipper. No charges other than those contained therein may be billed to Shipper or the "Billed to" party without prior written consent of Shipper. The extra copy of this Bill of Lading, furnished at the time of shipment, must be attached to the freight bill submitted to Shipper or the "Billed to" party and sent to:

CONSIGNED TO:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

CARRIER:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

This is to certify that the product stated below are properly classified, described, packaged, marked and labeled and is in proper condition for transportation according to the applicable regulations of the Department of Transportation. If this Shipment moves between to ports by a carrier by water, the law requires that the EIII of Lading shall state whether it is "carrier's or shipper's weight."

Intermodal Certificate: All Information required by Federal Highway Administration requisitors at 43 CFR 390.546 Implementing the Intermodal Bate Container Act of 1992 is set forth on the face of this bill of lading. The shaper name herein is the tendening party.

Haz	Com	Ruel	lotal	MANA	Description of Materials, Special Marks,	and Exceptions
	No.	Type	Quantity	MANAGI	그렇게 하는 아들이 하는 바람들은 사람이 되었다.	
Yes	1	TT	4484	<i>O</i> P	RQ< Corrosive liquids, n.o.s. (naphthenic	caustic), 8, UN1760, PGII
Ship	per	<u>Citgo</u> F	Refinery		00/1/2011	
Per	: <u>U</u>	$D \cdot c$	211/10		Signature John John	Date: 7.22.09
Carr					t Arthur)	
Per	ال	NIS	mylor		Signature	Date : 7-22-09
			- Annual Company of the Company of t	THE RESERVE AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AD	mental (Port Arthur)	
per	: <u>Joh</u>	instoc	e Ma	locke	Signature:	Date: 7-23-09
Mille	e (Generat	or Return	Copyi	Yeilow	Transporter Copy) Pink (Receiving Facility Copy)	Golden Rod (Generator 1st Conv

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CES Environmental Services, Inc.

Bill Of Lading #:

88983

Folder ID :	Citgo Refinery	(Cition - 1 aka	Charles	I A)					
•				B maraja	100				
	Hapkinenic Ca	mbac Kecacu	14	A40 (1)	and the state of		A STATE OF THE		
<u> </u>	JL					 		 	
		A Company of the Comp	the second	49 (40)					

Original - Shipper Provided Short Form Straight	Bill of Lading - Not Negotiable - Domestic
SHIPPED FROM:	PO #4504854067
Citgo Refinery	11a) PA-2641
4401 LA Hwy 108	
Lake Charles , LA 70665	
(337) 708-6344	

The properly described below, in apparent good order, except as noted (content and condition of packages unknown), marked, consigned, and destined as indicated below, which said carrier the word carrier being understood throughout this as meaning any person or corporation authorized to be in possession of the properly under the contract) agrees to carry to its unusual place of delivery at said destination/if on its route, otherwise to deliver to another carrier on the route to said destination. This Bill of Lading is a receipt for goods; it is not of fixed a contract of carriage, it is mutually agreed, as to each carrier of all or asy said over all or any portion of said route to destination, and as to each party at any time interested in all or any of said properly, that every service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract between shipper and carrier or intermediary.

For payment: Charges to be billed to Shipper or the "Billed to" party are set forth in the governing contract with Shipper. No charges other than those contained therein may be billed to Shipper or the "Billed to" party without prior written consent of Shipper. The extra copy of this Bill of Lading, furnished at the time of shipment, must be attached to the freight bill submitted to Shipper or the "Billed to" party and sent to:

CONSIGNED TO:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

White (Generator Return Copy)

CARRIER:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

Pink (Receiving Facility Copy)

This is to certify that the product stated below are properly classified, described, packaged, marked and labeled and is in proper condition for transportation according to the applicable regulators of the Department of Transportation. If this Shipment moves between to ports by a carrier by water, the law requires that the SIII of Lading small state whether it is "carrier's or shipper's weight."

Intermodal Certificate. All Information required by Federal Highway Administration regulations at 49 OFR 350.546 implementing the intermodal Safe Container Act of 1992 is set form on the face of this bill of lading. The shipper name harein is the tendening party.

laz	Cont	d ner	Total	Unit WUVol	Description of Materials, Special Marks, and Exceptions
Γ	No.	Туре	Quantity	[48PA QI]	그 보다 나는 그 그래요? 그렇게 얼마를 다 하는 것이 되었다.
/es	1	TÌ	4318	P	RQ< Corrosive liquids, n.o.s. (naphthenic caustic), 8, UN1760, PGII
					현 기업 등 등 경기 발표가 있었다. 그는 사람들은 그리고 함께 하고 있다고 있다고 있다. 전 기계 기업 및 기업 및 기업 및 기업 및 기업 및 기업 및 기업 및 기
- }-	*				
hin	per :	Citgp F	lefinery		
	<u>: ل</u>	210	MIN		Signature: A Down (LOAD) Date: 72207
er	er Cl	≠ ES Env	rironmen	ital (Port	Arthur)
'er arri	er Cl	≠ ES Env	rironmen	ital (Port	Arthur)
er arri	ier <u>Cl</u>	SEM Jua	rironmen	tal (Port	Arthur)

Yellow (Transporter Copy)

Golden Rod (Generator 1st Copy)

CES Environmental Services, Inc.

Bill Of Lading #:

88980

- 1 1 2 5

259

Folder ID :

Ctigo Refinery (Cligo - Lake Charles, LA) Naphthenic Caustic Recycling

SHIPPED FROM:	PO #4504854067
Citgo Refinery	11a) PA-2641 %
4401 LA Hwy 108	그는 네가 살아가면 하는 사는 (16) 다음을 하실하는 사고 사람들을 하실하는 것
Lake Charles , LA 70665	
(337) 708-6344	

goods; it is not of itself a contract of carriage. It is mutually agreed, as to each carrier of all or as to any said over all or any portion of said route to destination, and as to each party at any time interested in ail or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract between shipper and carrier or intermediary.

For payment, Charges to be billed to Shipper or the "Billed to" party are set forth in the opvertise contract with Shipper. No charges other than those contained therein may be billed.

For payment Charges to be billed to Shipper or the "Billed to" party are set forth in the governing contract with Shipper. No charges other than those contained therein way be billed to Shipper or the "Billed to" party without prior written consent of Shipper. The extra copy of this Bill of Lading, furnished at the time of shipment, must be attached to the freight bill submitted to Shipper or the "Billed to" party and sent to:

CES Environmental (Port Arthur) 2420 Gulfway Dr.

Port Arthur, TX 77640

CONSIGNED TO:

CARRIER:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

This is to certify that the product stated below are properly classified, described, packaged, marked and labeled and is in proper condition for transportation according to the applicable regulations of the Department of Transportation, if this Shipment moves between to ports by a carrier by water, the law requires that the Bill of Lading shall state whether it is "carrier's or shipper's weight."

Intermodal Certificate: All information required by Federal Highway Administration regulations at 43 CFR 390.54© implementing the Intermodal Safe Container Act of 1992 is set forth on the face of this bill of lading. The shipper name herein is the tendening party.

Haz	Cont	SINOT.	Total	Unit	Description of Materials, Special Marks, and Exceptions
	No.	Туре	Quantity	₩₩Voi	
Yes	1	77	¥7,380	э ^Р ——Э;	RQ< Corrosive liquids, n.o.s. (naphthenic caustic), 8, UN1760, PGII 7, 1ゃし
		· ·		3_	13.53.23 13.53
	***************************************		***************************************		
Ship Per :		Citgo F	Refinery		Signature: (755) Date: 721.09
Carri	er <u>C</u>	ES Em	/ironmen	tal (Por	t Arthur)
Per :	<u> 10</u>	loy	Brown	<u> </u>	Signature: Rehy Bin Date: 7-21-09
Rece	iving	Facilit	y : CES	Environ	mental (Port Arthur)
Per :	<u> 10</u>	huch	ow Mal	rcho	Signature Gold. Date: 7-22-0
\A/title	(General	or Return	<i>የ</i> ርሰቦሃ)	Vallme (Transporter Copy) Digit (Parchylan Stellifty Copy) Coldan Bod (Conceptor 4rt Copy)

CES Environmental Services, Inc.

Bill Of Lading #:

88978

F	at	der	th)	٦,

Citgo Relinory (Citgo - Lake Charles, LA) Machthenic Caustic Recycling

Original – Shipper Provided Short Form Straight Bill	of Lading – Not Negotiable – Domestic
SHIPPED FROM:	PO #4504854067
Citgo Refinery	11a) PA-2641
4401 LA Hwy 108	2. (a. 116) 4 (d. 1. a. 12) (d. 1. a. 12) (d. 1. a. 12)
Lake Charles , LA 70665	Fig. 11c) 11c)
(337) 708-6344	
any time interested in all or any of said property, that every service to be performed between shipper and carrier or intermediary. For payment: Charges to be billed to Shipper or the "Billed to" party are set forth in t	er of all or as to any said over all or any portion of said route to destination, and as to each party I hereunder shall be subject to all the terms and conditions contained in the applicable contract he governing contract with Shipper. No charges other than those contained therein may be bille copy of this Bill of Lading, furnished at the time of shipment, must be attached to the freight bill
CONSIGNED TO: 12230 DM	CARRIER:
CES Environmental (Port Arthur)	CES Environmental (Port Arthur)
2420 Gulfway Dr.	2420 Gulfway Dr.
Port Arthur TX 77640	Port Arthur TX 77640

This is to certify that the product stated below are properly classified, described, packaged, marked and labeled and is in proper condition for transportation according to the applicable regulations of the Department of Transportation. If this Shipment moves between to ports by a certier by water, the law requires that the Bill of Lading shall state whether it is confirment or shipper's weight."

Intermodal Certificate: All information required by Federal Highway Administration requisitors at 49 CFF; 390,540 Implementing the Intermodal Safe Centainer Act of 1992 is set forth on the face of this bill of lading. The shaper name herein is the tendering party.

Haz	Cents	atiot	lotal	Unit	Description of Materials,	Special Marks, and Exceptions
	No.	Type	Quantity	WWol		
Yes	1	<u>/</u> 17	3678	OF _	RQ≺ Corrosive liquids, n.o.	s. (naphthenic caustio), 8, UN1760, PGII
				de transcription de la company		1245.3
		er pe pekalantirka yang garap				
Ship	per : _	Citgo F	lefinery	and have didn't specially		- (611)
Per	£. #				Signature:	m (10th) Date: 7.20.09
Carr	ier <u>CE</u>	S Env	rironmen	tal (Por	t Arthur)	
Per	*	<u>zor</u>	10 FV.	M	Signature :	O Date: 7-20.09
Rece	eivin g ,	Facilii	y:CES	Enyiron	mental (Port Arthur)	
per	: 101	rusto	w Ma	ie we	mental (Port Arthur)	フーショー・クーショー・クーショー・クーショー・クーショー・クーショー・クーショー・クーショー・クーショー・ファー・ファー・ファー・ファー・ファー・ファー・ファー・ファー・ファー・ファ
White	e (Generati	ır Retum	Copy)	Yellow (Transporter Copy) Plnk (Receivi	ing Facility Copy) Golden Rod (Generator 1st Copy)

x 269\$

Bill Of Lading #

89039

CES Environmental Services, Inc.

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1	27.7	5 174	25.5	٠

Targa Midstream Services (Targa - Mont Belvelu) LCNC Caustic w/Ammonia processes (R. PACEE

Original – Shipper Provided Short Form Straight Bill of Lading – Not Negotiable – Domestic

SHIPPED FROM:

 Targa Midstream Services LP
 11a) PA-2806

 10319 Hwy 146 North
 11b)

 Mont Belvieu , TX 77580
 11c)

 (281) 385-3215
 11c)

The property described below, in apparent good order, except as noted (content and condition of packages unknown), marked consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this as meaning any person or corporation authorized to be in possession of the property under the contract) agrees to carry to its unusual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. This Bill of Lading is a receipt for goods; it is not of itself a contract of carriage, it is manually agreed, as to each carrier of all or asy said over all or any portion of said route to destination, and as to each carrier of all or asy sold over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract between shipper and carrier or intermediary.

For payment: Charges to be billed to Shipper or the "Billed to" bath, are set forth in the governing contract with Shipper. No charges other than those contained therein may be billed to Shipper or the "Billed to" party without prior written consent of Shipper. The extra copy of this Bill of Lading, furnished at the time of shippering, must be shacked to the treight bill submitted to Shipper or the "Billed to" party and sent to:

CONSIGNED TO:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

CARRIER:

CES Environmental Services, Inc.

4904 Griggs Rd.

Houston, TX 77021

This is to certify that the product stated below are properly classified, described, packaged, marked and labeled and is in proper condition for transportation according to the applicable regulations of the Department of Transportation. If this Enterment moves between to ports by a carrier by water, the law requires that the EHI of Lading shall state whether it is "carrier's or shipper's weight."

Intermodal Certificate: All Information required by Federal Highway Administration regulations at 49 CFR 350.540 implementing the Intermodal Safe Container Act of 1992 is set forth on the face of this bill of lading. The shipper name herein is the tendering party.

No.	Туре	Quantity	MAAGI			A CONTRACTOR OF THE PARTY OF TH	e de la companya del companya de la companya del companya de la co		
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1	TT	45300	P	UN1824, S	Sodium hydroxide :	solution, 8,	PGII [LSNG	spent c	austic w/ammo
		4830	ā						
			5						
or ·	Farga I	Midstrea	m Serv	ices I P					
					re: 18.2.	Jack_		Date:	7-21-8
yr <u>C</u> l	S Env	ironmen	tal Sen	/ices, Inc.					
	200	N. Fa	<u>62</u>	Signatu	re : <u>}</u>			Date :	7-21-09
ving	Facilit	y:CES	Environ	mental (F	ort Arthur),				
Joh	n stou	o NG	Ircho	Signatu	re: Ma	le.		Date :	7.21-09
	S.E.	CES Env	er: Targa Midstrea S.E. GARNOS r CES Environmen Sone For	S.E.GARINGR r CES Environmental Services wing Facility: CES Environ	er: Targa Midstream Services LP S.E.GARWER Signatu r CES Environmental Services, Inc. Some of Signatu wing Facility: CES Environmental (F	er: Targa Midstream Services LP S.E. CARWER Signature: A.S. r CES Environmental Services, Inc. Society of Signature: A.S. wing Facility: CES Environmental (Port Arthur)	er: Targa Midstream Services LP S.E. CARWOR Signature: A. Jack CES Environmental Services, Inc. Somework is Signature:	er: Targa Midstream Services LP S.E. CAROVER Signature: N. S. Jack CES Environmental Services, Inc. Sometimes Signature: J. J. J. J. J. J. J. J. J. J. J. J. J.	er: Targa Midstream Services LP S.E.GARNOR Signature: N. Z. Date: CES Environmental Services, Inc. Date:

CES Environmental

Bill Of Lading #:

89051

Folder ID :	Procees Solutions (Total Petrochemical-Port Arthur) Spent Haphthenic Caustic /	P.O. 7 200603 1543 LCAC
Original – S	Shipper Provided Short Form Straight Bill of La	ding – Not Negotiable – Domestic
SHIPPED	FROM:	
Total Petr	ochemicals IncPort Arthur, TX	11a) PA-3093
7600 32nd	i Street	(11b)
Port Arthu	r , TX 77642-7901	11c)
(409)963	-6825	541ci (1911) 1 (1911) 1 (1911) 1 (1911)

any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract between shipper and carrier or intermediary.

For payment, Charges to be billed to Shipper or the "Billed to" party are set forth in the governing contract with Shipper. No charges other than those contained therein may be billed to Shipper or the "Billed to" party without prior written consent of Shipper. The actua copy of this Bill of Lading, furnished at the time of shippering, must be attached to the freight bill submitted to Stripper or the "Billed to" party and sent to:

CONSIGNED TO:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

CARRIER:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

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Intermodal Certificate: All Information required by Federal Highway Administration regulations at 49 CFR 390.54© implementing the Intermodal Safe Container Act of 1992 is set forth on the face of this bill of lading. The shipper name herein is the tendering party.

Haz	Conf	aust.	Total	Unit	Description of Materials, Special Marks, and Exceptions
	No.	Туре	Quantity	Wt/Vol	근일이 있는 경험에 가장 함께 그 있는 사람이 되었다. 그리고 있는
No	1	435	80	185	RQ, UN1760; Corresive liquids, n.e.s. (Naphthenic caustic acid), 8, PGII
		506	7	gallow	5 TICKET # 048147
				<i></i>	8.6 P.P.G.
hin	nor ·	Tetal.P	etrocher		ncPort Arthur TX /) //
				/**	Signature: aught mpky Date: 1-21-0
arr	ier L	ES Env	vironmen	tal (Por	t Arthur)
er Yer			5544		Signature Date: 7-21-0
lece	eiv <u>in</u> a	Facilil	v:CES	Environ	mental (Port Arthur)
Der	: <u>J</u>	shu st	W No	alrehe	Signature: Date: 7-21-07
		or Return			Transporter Copy) Pink (Receiving Facility Copy) Golden Rod (Generator 1st Copy

CES Environmental Services, Inc.

Bill Of Lading #:

88872

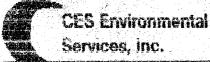
Arkema, Inc Houston 2231 Haden Road Houston TX 77015 (713) 450-6770 The property described below, in apparent good order, except as noted (consent and condition of packages unknown), marked, consigned, and destined as indicated below, and continued to the property control of carrier being understood throughout this as meaning any present or corporation authorized to be in prospection of said could restrict any correct to the currier of the understood destination. In this profit is made destination in this profit, which were said or earlier below and destination, in this profit is made of itself a contract of carriage. It is impaintly spreed, as to each carrier of all or as to any said over all or any portion of said route to destination, and as to each carrier of the said conditions contained in the applicable control profit is made of itself a contract of intermediany. or payment, Charges to be builted to shipper of the "Billed to" party are set forth in the governing contract with entire of any portion of said route to destination, and as to each carrier or the "Billed to" party end seem to control of the Billed to" party end seem to control of its Bill of Lading, furnished at the time of shippers, must be attached to the frequentiation of the "Billed to" party end seem to." **CONSIGNED TO:** **CARRIER:** CES Environmental Services, Inc.** **CARRIER:** CES Environmental Services, Inc.** **A904 Griggs Rd.** Houston, TX 77021 His is to entire that the product stated below are properly classified, described, packaged, marked and labeled and its proper condition for transportation according to the property weight. **Consistence** **No.** Type** **Total** **Quantity** **Description of Materials, Special Marks, and Exceptions** **Description of Materials, Special Marks, and Exceptions**	Caustic Manage	i R.O. ement
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CES Environmental (Port Arthur) CES Environmental Services, Inc. 4904 Griggs Rd. Houston , TX 77021 Ho	o Shipper or line "Billed to" party willingut pr	har written company of Shipper. The exima copy of this Bill of Lading, furnished at the time of shipment, must be attached to the fire
CES Environmental (Port Arthur) CES Environmental Services, Inc. 4904 Griggs Rd. Houston , TX 77021 He is to early that the product saled below are properly classified, described, packaged, inspread and labeled and is in proper condition for transportation according to the purpose registration of the classified described packaged, inspread and labeled and is in proper condition for transportation according to the purpose registration of the Elevation of the Classified and is in proper condition for transportation according to the purpose registration of the Classified and is in proper condition for transportation according to the state of the Classified and is in proper condition for transportation according to the content of the Classified and is in proper condition for transportation according to the state of the Classified and is in proper condition for transportation according to the content of the Classified and is in proper condition for transportation according to the state of the Classified and is in proper condition for transportation according to the described post according to the registration according to the state of the registration according to the described post according to the registration according to the state of the content of the conte	CONSIGNED TO :	CARRIER:
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hipper: Arkema; Inc Houston Ver: 10-5/-y - Joy Signature: 11. Sty 1/2 Date: 07-16-09 Parrier CES Environmental Services, Inc. Ver: 18ESton Sanders Signature: Ructan London Date: 07-16-09	Quantity	그 들은 그는 그들은 불다는 그는 그리고 그는 것이 살아가 있다. 그는 그 그는 그는 그는 그는 그는 그는 그는 그는 그는 그는 그는 그
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	hipper: Arkenia Inc.	Wovol P UN 2924, Flammable liquid. Corrosive, n.o.s., 3, PG II Porter: Services Houston Market Signature: Market Signature: Date: 07-16-0 Intal Services, Inc.

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Yellow (Transporter Copy)

White (Generator Return Copy)

Golden Rod (Generator 1st Copy)



Bill Of Lading #:

88874

		Servic	es, inc.		고급하는 이번 발표를 가려면 되는 것이 되었다. 그는 것은 보고 있는 그는 가는 것을 보고 있다. 음식하는 사람들은 기를 하는 것을 하는 것이 되었다. 그는 것을 하는 것을 하는 것을 하는 것이 없다.
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hi	ginal –	Shipper	Provided	Short For	n Straight Bill of Lading – Not Negotiable – Domestic
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10	uston	, TX 77	015		등에 걸하고 있다.들(16)이 리아스랑스 스트웨션을 받는다 하셨다.
71	3) 45()-6770			보고 있다. 선생님, 전, 없다 하는 것이 되는 것이 되는 것이 없는 것 같습니다.
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			ıtal (Port	Arthur)	CES Environmental Services, Inc.
		iway Dr			4904 Griggs Rd.
Or	t Arth	ur , TX	7764G		Houston, TX 77021
a2	Con No.	fainer Type	Total Quantity	Unit wevor	Description of Materials, Special Marks, and Exceptions
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e:r	Koto	ert 1	fiction	ख्य ,	Signature: Robert Auchum Date: 07-17-0
4	eiving	Facilit	Y CES	Environm	ental (Port Arthur)
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white (Generator Return Copy)

Yellow (Transporter Copy)

Pink (Receiving Facility Copy)

White (Generator Return Copy)

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Bill Of Lading #:

22/

Original - Shipper Provided Short Form Straight Bill of Lading - Not Negotiable - Domestic 3 SHIPPED FROM: Total Petrochemicals IncPort Arthur, TX 11a) PA-3093 7600 32nd Street 11b) Port Arthur, TX 77642-7901 11c) (409) 963-6825 The control technic in squaret soot were recess to meet creater and control in the control of the c	Folder ID :	Process Solutions (Total Petrochen Speni Haphitsenic Caustic	nical-Port Arthur)	P.O.	# 20060	03/543	Load
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policiative regulations of the Department of Transportation. If this Shipment moves between to ports by a center by water, the law requires that the Bill of Lading shall state with its "carriers or shipper" selected. All information required by Federal Highway, Administration requisitors at 49 OFR 390.540 implementing the Intermoded Safe Container Act of 1992 is still on the face of this bill of lading. The shipper remier herein is the tendering party. Total Unit Description of Materials, Special Marks, and Exceptions	Port Arthur	T, TX 77640	the state of	ort Arthu	r, TX 77640		
46,680 165. Ticket # 049964. 5365. Gals P.P.G. 8.7 hipper: Total Petrochemicals IncPort Arthur, TX Per Michael Vander War Date: 7-15-09 arrier CES Environmental (Port Arthur) Per: Lokay Brow Signature: Laskay you Date: 7-15-09 eceiving Facility: CES Environmental (Port Arthur)	No.	Type Quantity Wt/Vot					o Pali
hipper: Total Petrochemicals IncPort Arthur, TX Per Michael VanderWig Date: 7-15-09 Farrier CES Environmental (Port Arthur) Per: Loky Brow Signature: Loky Jan Date: 7-15-09 Receiving Facility: CES Environmental (Port Arthur)	-						
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Per: Lekoy Brown Signature: Laskoy Jr. Date: 7-15-05				ind Vand	declifez	_ Date : <u>7-/</u> 3	5-09
eceiving Facility : CES Environmental (Port Arthur)							
eceiving Facility: CES Environmental (Port Arthur)		나이 그들은 그리고 얼마를 하는 것이 되었다.			The T	_ Date : <u>7</u> -	15:07
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Pink (Receiving Facility Copy)

Bill Of Lading # :

88903

261

Folder ID :	Process Solutions (Total Petrochemical-Port Arthur) P.O. # 2006031543 Load #
	hipper Provided Short Form Straight Bill of Lading – Not Negotiable – Domestic 1391
SHIPPED	FROM:
Total Petro	ochemicals IncPort Arthur, TX 11a) PA-3093
7600 32nd	I Street
Port Arthu	r , TX 77642-7901
(409) 963-	

The property described below, in apparent good order, except as noted (content and condition of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this as meaning any person or corporation authorized to be in possession of the property under the contract) agrees to carry to its unusual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. This Bill of Lading is a receipt for goods; it is not of itself a contract of carriage. It is mutually agreed, as to each carrier of all or as to any said over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder small be subject to all the terms and conditions contained in the applicable contract.

For payment. Charges to be billed to Shipper or the "Billed to" party are set forth in the governing contract with Shipper. No charges other than those contained therein may be billed to Shipper or the "Billed to" party without prior written consent of Shipper. The extra copy of this Bill of Lading, furnished at the time of shipment, must be attached to the freight bill submitted to Shipper or the "Billed to" party and sent to:

CONSIGNED TO:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

CARRIER:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

This is to certify that the product stated below are properly classified, described, packaged, marked and labeled and is in proper condition for transportation according to the applicable regulations of the Department of Transportation. If this Shipment moves between to ports by a carrier by water, the law requires that the Bill of Lading shall state whether it is "carrier's or shipper's weight."

Intermodal Certificate: All Information required by Federal Highway Administration regulations at 49 OFR 350.540 Implementing the Intermodal Safe Container Act of 1992 is set forth on the face of trias bill of lading. The shipper name herein is the tendering party.

Haz	Container		nit Description of Materials, Special Marks, and Exceptions
	No. Type	Quantity (W	Vol. : 그는 그 시간에 함께 가장 하는 사람들은 사람들이 되었다. 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그
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-	531	6_G	las TICKET # 049962
			P.P.G. 8.7
			는 사람들은 마음이 그렇게 되었다. 그는 사람들은 마음이 가는 것이 없는 것이 되었다. 그런 사람들은 사람들이 있었다. 이 사람들은 사람들은 사람들은 사람들이 가는 것이 되었다. 그런 것이 없는 것이 없다.
Shipp	er : Total P	etrochemic	als IncPort Arthur, TX
Per	Q 707A	<u> </u>	Signature: M. Bennott Date: 7-14-09
Carrie	CES Env	/ironmental	(Port Arthur)
Per:	Leloy L	Brown	Signature: AR Rolling Date: 7-14-09
			vironmental (Port Arthur)
per:	Johnston	. Mal	ck Signature: \$66 Date: 2-14-07
			The state of the s

Bill Of Lading #:

89248

#20

Folder ID

Citgo Refinery (Citgo - Lake Charles, LA) Naphthenic Caustic Recycling

Original - Shipper Provided Short Form Straight Bill of Lading - Not Negotiable - Domestic

 SHIPPED FROM:
 PO #4504854067

 Citgo Refinery
 11a) PA-2641

 4401 LA Hwy 108
 11b)

 Lake Charles . LA 70665
 11c)

 (337) 708-6344
 11c)

The property described below, in apparent good order, or cept as noted (content and condition of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this as meaning any person or corporation authorized to be in possession of the property under the contract) agrees to carry to its unusual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. This Bill of Lading is a receipt for goods; it is not of fixelf a contract of carriers of carriers of carriers of carriers of an associated over all or any portion of said out to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract between shaper and carrier or intermediary.

For payment: Charges to be billed to Shipper or the "Billed to" party are set forth in the governing contract with Shipper. No charges other than those contained therein may be billed to Shipper or the "Billed to" party without prior written consent of Shipper. The extra copy of trip Bill of Lading, furnished at the time of shipment, must be attached to the freight bill submitted to Shipper or the "Billed to" party and sent to:

CONSIGNED TO:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

CARRIER:

CES Environmental (Port Arthur)

2420 Guffway Dr.

Port Arthur, TX 77640

This is to certify that the product stated below are properly classified, described, packaged, marked and labeled and is in proper condition for transportation according to the applicable regulations of the Department of Transportation, if this Shipment moves between to ports by a carrier by water, the law requires that the Bill of Lading shall state whether it is "carrier's or shipper's weight."

Intermodal Certificate: All Information required by Federal Highway Administration required as 49 CFR 390.505 implementing the Intermodal Safe Container Act of 1992 is set forth on the face of this bill of lading. The shipper name herein is the tendening party.

Maz	az Container		Total	Unit	Description of Materials, Special Marks,	and Exceptions
ſ	No.	Туре	Quantity	Wiffel		
) 1 2	TT	43,080	F	RQ< Corrosive liquids, n.o.s. (naphthenic	caustic), 8, UN1760; PGII
ەنىر پ سىبىت			-			
		Citao F	lefinery	_		
Per	2	Ž14.			Signature	Date:
Carr) ier Cl	∃S Env	ironmen	tal (Por	Arthur)	
		-			Signature: M. Roy Pr	Date : 7 - 30 - 09
P (3)					그 그는 그를 가는 것이 되는 사람들은 것이 하는 것이 없는 것이 되었다. 그렇게 되었다.	
		, Facilit	v:CES	Environ	mental (Port Arthur)	

Bill Of Lading #:

89040

Fold	er ID :	'arga Midetream LSNG Cametro v	Services EAmmoni	(Targa - Mont Belvelu) a processed @ PACES
Ori	ginal – Ship	per Provided	Short F	orm Straight Bill of Lading – Not Negotiable – Domestic
SH	IPPED FRO	OM:		물건 동네 그래 그렇게 내려가 하는데 하는데 말한 모든 사고 하는데 말했다.
Tai	ga Midstre	am Servic	es LP	11a) PA-2806
10	319 Hwy 14	46 North		
Mo	nt Belvieu	, TX 77580	ľ	
(28	1) 385-321	15		[편리하] : 100 시간 116 (116)
goods any ti betwee For pa to Shi	c, it is not of itself a me interested in all een shipper and car lyment. Charges to pper or the "Billed t	contract of carriage or any of said prop ner or intermediany be billed to Shipper	eit is mutual eity, that eve corthe "Billien or written con	If on its route, otherwise to deliver to another carrier on the route to said destination. This Bill of Lading is a receipt for ity agreed, as to each carrier of all or as to any said over all or any portion of said route to destination, and as to each party any service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract and to party are set forth in the governing contract with Shipper. No charges other than those contained therein may be bill tasent of Shipper. The extra copy of this Bill of Lading, furnished at the time of shipment, must be attached to the freight bill.
co	NSIGNED	TO:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CARRIER:
CE	S Environm	nental (Port	Arthur	CES Environmental Services, Inc.
	0 Gulfway			4904 Griggs Rd.
Por	t Arthur, T	X 77640		Houston, TX 77021
It is "c Interm form o	arrier's or shipper's odel Certificate: All hithe face of this bil	s weight." Information require I of lading. The ship	al by Federal per name he	r classified, described, packaged, marked and labeled and is in proper condition for transportation according to the . If this Shipment moves between to ports by a carrier by water, the law requires that the Bill of Lading shall state whether in Highway Administration regulations at 43 OFR 390.549 implementing the intermodal Safe Container Act of 1992 is set are in its the tendening party. **Change instruments** **Change instruments
nterm Interm	enter's or shipper's odel Certificate: All	rweight." Information require I of lading. The ship Total Guantifer	of by Federal	n. If this Shipment moves between to ports by a camer by water, the law requires that the Bill of Lading shall state whether Highway Administration regulations at 49 CFR 390.54© implementing the intermodal Safe Container Act of 1992 is set
nterm form o	enter's or shipper's odal Certificate: All it the face of this bit Container No. Typ	rweight." Information require I of lading. The ship Total Guantifer	ed by Federal oper næme he	n. If this Shipment moves between to ports by a camer by water, the law requires that the Bill of Lading shall state whether I Highway Administration regulations at 43 CFR 390.54© implementing the intermodal Safe Container Act of 1992 is set trein is the tendening party.
nts"cintermitorino Taz	enter's or shipper's odal Certificate All hire face of this bit Configurer No. Ty	information require information require inflading. The ship Total Quantity	Unit Wt/Voi	If this Shipment moves between to ports by a camer by water, the law requires that the Bill of Lading shall state whether Highway Administration regulations at 43 CFR 390.549 Implementing the intermodal Safe Container Act of 1992 is set srein is the tendening party. Description of Materials, Special Marks, and Exceptions UN1924, Sodium hydroxide solution, 8, PGII [LSNG spent caustic w/ammonia]
nis"culnterminonino lazz	container No. Typer: Targer: Market CES E	Information require in the sale Quantity Total Quantity T A C	Unit Wt/Vol	I files Shipment moves between to ports by a cernier by water, the law requires that the Bill of Lading shall state whether it files was Administration regulations at 43 CFR 390.549 implementing the intermodal Safe Container Act of 1992 is set rein is the tendening party. Description of Materials, Special Marks, and Exceptions UN1824, Sodium hydroxide solution, 8, PGII [LSNG spent caustic w/ammonia] rices LP Signature: Date:
his entermination of the control of	container No. Typer: Targer: Market CES E	information require in of lading. The ship Guantity pe Guantity	Unit Wt/Voi	I files Shipment moves between to ports by a cernier by water, the law requires that the Bill of Lading shall state whether it files was Administration regulations at 43 CFR 390.549 implementing the intermodal Safe Container Act of 1992 is set rein is the tendening party. Description of Materials, Special Marks, and Exceptions UN1824, Sodium hydroxide solution, 8, PGII [LSNG spent caustic w/ammonia] rices LP Signature: Date:
his contemporary c	Container No. Typer: Targ Per CES E	Total Total Quantity Invironment	Unit Wit/Voi	I Highway Administration regulations at 49 CFR 390.549 Implementing the intermodal Safe Container Act of 1992 is set stein is the tendering party. Description of Materials, Special Marks, and Exceptions UN1824, Sodium hydroxide solution, 8, PGH [LSNG spent caustic w/ammonia] Prices LP Signature: Date:

White (Generator Return Copy)

Yellow (Transporter Copy)

Pink (Receiving Facility Copy)

237

Bill Of Lading#:

8925

	icese Solutione (Fotal F ant Naphthénic Caustic	etrochemical-Port Arthur)	P.O. #200	06031543	Loadi
<u> Original – Shippe</u>	r Provided Short F	om Straight Bill of L	ading – Not Negoti	able – Domestic	1397
SHIPPED FRO	M:				
Total Petrocher	nicals incPort	Arthur, TX	11a) PA-3093		
7600 32nd Stre			11b)		
Port Arthur, T			11c)		
(409) 963-6825			11c)		
said carrier (the word carrie carry to its unasual place of goods, it is not of itself a co	er being understood throughor I delivery at said destination, ninect of carriage, it is musual any of said property, that eve	ui this as meaning any person or c If on its route, otherwise to deliver Ily agreed, as to each camer of all	corporation authorized to be in to another carrier on the rould for as to any said over all or a	erked, consigned, and destined as possession of the property under to to said destination. This Bill of La my portion of said route to deatings terms and conditions contained in	the contract) agrees to oding is a receipt for ion, and as to each par
o Shipper or the "Billed to"	billed to Shipper or the Shille party without prior written cor Gilled to party and sent to:	d to" party are set forth in the gove esent of Shipper. The extra copy of	aming contract with Shipper. N I this Bill of Lading, furtished :	io charges office than those contain at the time of shipment, must be a	ned therein may be bill tached to the freight of
CONSIGNED T	0:		CARRIER:		
CES Environme	ental (Port Arthur		CES Environmen		
2420 Guffway D	r.		2420 Gulfway Dr		
Port Arthur, TX	77640		Port Arthur, TX	77640	
No. Type		RO UN1760 Co	mosive liquids nos	. (Naphthenic caustic a	dd) 8 PGII
	500 165 'Y 94110			048211	
		8.1	6 PP.G.		
	人的 医多种 医多性皮肤	경기를 가르게 그렇게 되었다.			
er: TOTAL		IncPort Arthur, T) Signature:		Date :	7-28-0
er: TOTAC arrier CES En	vironmental (Po	Signature : <i></i>	and Melon		
er: TOTAL arrier CES En Per: KZU, K ecelving Facil	ivironmental (Po) W (Lsop) ity : CES Environ	Signature : <u>f</u>	and of from	Date ; <u>7</u>	7-28-09

Bill Of Lading #:

89276

Folder IO

Targa Midetream Services (Targa - Mont Betvelu)

Original - Shipper Provided Short Form Straight Bill of Lading - Not Negotiable - Domestic

SHIPPED FROM:
Targa Midstream Services LP
11a) PA-2806
10319 Hwy 146 North
11b)
Mont Belvieu , TX 77580
11c)
(281) 385-3215

The property described below, in apparent good order, as cept as indicated and condition of packages unknown, marked, consigned, and destined as indicated below, which said carries (the word carrier being understood throughout this as meaning any person or corporation authorized to be in possession of the property under the contract) agrees to carry to its unusual place of delivery at said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. This Bill of Lading is a receipt for goods; it is not of itself a contract of carriage. It is mutually agreed, as to each carrier of all or as to any said over all or any portion of said route to destination, and as to each carry of the interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract.

For payment: Charges to be billed to Shipper or the "Billed to" party are set forth in the governing contract with Shipper. No charges other than those contained therein may be billed to Shipper or the "Billed to" party without prior written consent of Shipper. The extra copy of this Bill of Lading, turnished at the time of shippering, must be attached to the freight bill submitted to Shipper or the "Billed to" party and sent to:

CONSIGNED TO:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

CARRIER:

CES Environmental Services, Inc

4904 Grigas Rd.

Houston, TX 77021

This is to certify that the product stated below are properly classified, described, packaged, marked and labeled and is in proper condition for transportation according to the applicable regulations of the Department of Transportation. If this Shipment makes between to ports by a carrier by water, the law requires that the Bill of Lading small state whether it is "carrier's or shipper's weight."

intermodal Certificate. All Information required by Federal Highway Administration requirations at 49 CFR 330.546 implementing the Intermodal Balle Container Act of 1992 is set forth on the face of this bill of lading. The shipper name itereints the tendering party.

Haz	Cont	M iller	Total	Unit	Description of Materials, Special Marks, a	nd Exceptions
	No.	Type	Quantity	W t/Voi		
Yes	1	TI	4562	OF	UN1824, Sødium hydroxide solution, 8, PGII (LS	ING spent caustic w/ammonia)

webberies. See						
ionami ii		Martin Stray Control				
hip	per:_	Targa	<u>Midstrea</u>	m Serv	ices LP	
per			/	-	Signature:	Date : 7-28-04
arr	ier <u>C</u> l	ES Em	/ironmen	ital Sen	/ices, Inc.	
our	•	UAN	MEN	<u> </u>	Signature: \	Date: 7-28-09
l ece	eiving	Facili	y CES	Environ	ımental (Port Arthur)	
per	II:	nustr	M 20	alrche	Signature: Wale	Date : フ- 28 - 09
) a dalta		- / (Datasa	Canio	Verteen	Transporter Conv.) Pink (Receiving Facility Conv.)	Golden Rod (Generator 1st Come)

White (Generator Return Copy)

Yellow (Transporter Copy)

Pink (Receiving Facility Copy)

Shipper: Citgo Refinery
Per: Rusty Jinks

White (Generator Return Copy)

Per:

Carrier CES Environmental (Port Arthur)

Receiving Facility: CES Environmental (Port Arthur)

Bill Of Lading #:

89251

Original - Ship	per Provided	l Short Fon	n Straight Bill of Lading – Not Negotiable – Domestic				
SHIPPED FR	OM:		PO #4504854067				
Citgo Refinei	у		11a) PA-2641				
4401 LA HW	/ 108						
Lake Charles	, LA 7066	5	고 이렇게 조건하고 하 네하 는데 모르는 이 그림도 다양한테 되고 있다.				
(337) 708-6 3	44		보고하철 - 이글 왕 316 (1) 왕 11 12 2 15 15 15 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16				
goods; it is not of itself any time interested in a between shipper and of For payment: Charges t	a contract of carriag all or any of said proj artier of Intermedian o be billed to Ottipae	e it is makedly a perty, that every s " or the "Billed to"	its route, offerwise to deliver to another carrier on the rouse to said destination. This Bill of Lading is a receipt for greed, as to each carrier of all or as to any said over all or any portion of said rouse to destination, and as to each part ervice to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract party are set forth in the governing contract with Bhipper. No charges other than those contained therein may be bill of Brigger. The extra copy of this Bill of Lading, furnished at the time of shippers, must be attached to the height bill.				
submitted to Stripper or	the "Billed to" party						
CONSIGNED			CARRIER;				
CES Environi		t Arthur)	CES Environmental (Port Arthur)				
2420 Gulfway			2420 Gulfway Dr.				
Port Arthur,			Port Arthur, TX 77640				
epolicable regulations of its "carter's or shipper remodal Certificate. A forth on the face of his to the Contained.	the Department of T "s weight." Il information regula ill of lading. The shi Total Guaratine	ransportation. Its ed by Federal Hig pper name narein	satified, described, packaged, marked and labeled and is in proper condition for transportation according to the als Bripment moves between to ports by a carrier by water, the law requires that the Bill of Lading shall state whethe tway Administration regulations at 49 CFR 390.5460 implementing the intermodal 8afe Container Act of 1392 is set is the tendering party. Description of Materials, Special Marks, and Exceptions				
No. T	kbe	1_1_					
1 190, 1	TT	P	RQ< Corrosive liquids, n.e.s. (naphthenic caustic), 8, UN1780, PG(I				
			어느 병사 이 그 동생님 사이전인 그렇다면 가게 하지만 하는 생물에 보고 있었다. 하지 않는 경기를 받는 것이 되어 되었다.				
	T		그들 그는 하는 물론이 보다면 하는 이번 이 그렇게 하는 그리는 말이 말하면 하는데				

Signature:_

Signature : 🏂

Signature 😂

Yellow (Transporter Copy)

Date: 7-29-09

Date: 7. 29.09

Golden Rod (Generator 1st Copy)

Date:

Pink (Receiving Facility Copy)

237

CES Environmental Services, Inc.

Bill Of Lading #:

89399

	Targa Mildeiream Services LP (CBF Spent Caustic	Targa Midetream Servicee LP - Mont Belvisu)
Original – Ship	per Provided Short Form	Straight Bill of Lading – Not Negotiable – Domestic
SHIPPED FR	OM:	[2] - [1] - [2] -
Targa Midstr	eam Services LP	11a) PA-2301
10319 Hwy 1	46 North	
Mont Belvieu	. TX 77580	
(281) 385-32	15	
said carrier (the word c carry to its unusual place) poods; it is not of itself is any time interested in a between shipper and ca or payment. Charges to be Shipper or the "Billed o Shipper or the "Billed	artier being understood throughout this it of delivery at said destination, if on it is contract of carriage, it is mutually ag it or any of said properly, that every se one or intermediary.	as meaning any person or corporation authorized to be in possession of the property under the contract) agrees to a rouse, otherwise to deliver to another carrier on the rouse to said destination. This bill of Lading is a receipt for each as to each carrier of all or as to any said over all or any portion of said rouse to destination, and as to each par vice to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract want are set forth in the governing contract with 9 hipper. No charges other than those contained therein may be bill
said carrier (the word c. sarry to its unusual place, pods, it is not of itself is any time interested in a petween shipper and ca or payment: Changes to 9 Shipper or the "Billed ubmitted to Shipper or CONSIGNED	anter being understood transflout this it of delivery at said destination, if on it scortizated of carriage, it is matually agail or any of said properly, that every select or intermediary. The billied to Shipper or the "Billied to" is to" party without prior written consent of the "Billied to" party and sent to: TO:	as meaning any person or corporation authorized to be in possession of the properly under the covinact) agrees to a rouse, otherwise to deliver to another carrier on the rouse to said destination. This Bill of Lading is a receipt for each as to each carrier of all or as to any said over all or any portion of said rouse to destination, and as to each par vice to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract want are set forth in the governing contract with Ohipper. No charges other than those contained therein may be bit
said carrier (the word c. sarry to its unusual place poods, it is not of itself ; try time interested in a petween shipper and ca or payment: Charges to prince or the "Billed ubmitted to Shipper or CONSIGNED CES ENVIRONTI	artier being understood throughout this is of delivery at said destination, if on it is contract of cartiage, it is mutually agill or any of said property, that every senter or intermediary. The belied to Shipper or the "Billed to", to party without prior written consent of the "Billed to" party and sent to: TO: nental (Port Arthur)	as meaning any person or corporation signorized to be in possession of the property under the contract) agrees to a rouse, otherwise to deliver to another carrier on the rouse to said destination. This Bill of Lading is a receipt for each carrier of all or as to any said over all or any portion of said rouse to destination, and as to each paylice to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract with Shipper. No charges other than those contained therein may be bill of Shipper. The extra copy of this Bill of Lading, furnished at the time of shipment, must be attached to the freight bill CARRIER: CES Environmental Services, Inc.
said carrier (the word coarry to lits unusual place) poods, it is not of lister any time interested in a petween shipper and carry time interested in a petween shipper and carry payment. Charges to a shipper or the "Billed abmitted to Shipper or CONSIGNED CES Environned 420 Gulfway	ander being understood throughout this et of delivery at said destination, if on it is contract of carriage, it is mutually again or any of said property, that every set mer or intermediary. The billied to Shipper or the "Billied to" to party without prior written consent of the "Billied to" party and sent to: TO: nental (Port Arthur) Or.	eed, as to each carrier of all or as to any said over all or any portion of said route to destination, and as to each parvice to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract with Shipper. No charges other than those contained therein may be bill if Shipper. The extra copy of this Bill of Lading, furnished at the time of shipment, must be attached to the freight bill CARRIER: CES Environmental Services, Inc. 4904 Griggs Rd.
said carrier (the word coarry to its unusual place poods; it is not of itself a poods; it is not of itself a poods; it is not of itself a pool to itself a pool	and er being understood throughout this it of delivery at said destination, if on it is contract of carriage, it is mutually agill or any of said property, that every select or intermediary. The belilled to Shipper or the "Billed to", to" party without prior written consent of the "Billed to" party and sent to: TO: nental (Port Arthur) Dr. TX 77640	as meaning any person or corporation signorized to be in possession of the property under the contract) agrees to a rouse, otherwise to deliver to another carrier on the rouse to said destination. This limit I Lading is a receipt for each as to each carrier of all or as to any said over all or any portion of said rouse to destination, and as to each parvice to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract vary are set forth in the governing contract with 9hipper. No charges other than those contained therein may be bill a shipper. The extra copy of this 9111 of Lading, furnished at the time of shipment, must be attached to the freight of CARRIER: CES Environmental Services, Inc. 4904 Griggs Rd. Houston, TX 77021
said carrier (the word corry to its unusual place (arry to its unusual place) poods, it is not of itself; any time interested in a petween shipper and car or payment. Charges to a Britisper or the "Billed automitted to Shipper or the	ander being understood throughout this et of delivery at said destination, if on it is contract of cartiage, it is mutually again or any of said property, that every senter or intermediany. The billied to Shipper or the "Billied to" is to" party without prior written consent of the "Billied to" party and sent to: TO: nental (Port Arthur) Dr. IX 77640 product stated below are property class the Department of Transportation. If the	as meaning any person or corporation authorized to be in possession of the properly under the contract) agrees to a rouse, otherwise to deliver to another carrier on the rouse to said destination. This bill of Lading is a receipt for each carrier of all or as to any said over all or any portion of said rouse to destination, and as to each parvice to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract value of the performed hereunder shall be subject to all the terms and conditions contained in the applicable contract value of the performed herein the poverning contract with shipper. No charges other than those contained therein may be bill if shipper. The extra copy of this Bill of Lading, furnished at the time of shipment, must be attached to the freight bill carried to the
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hii	pen:	Targa Midstream Se	ervices LP	
	Cort	Jere	Signature:	
arı	ier <u>C</u> l	ES Environmental S	ervices, Inc.	
'er	:	Tu-a MEADOZA	= Signature:	Date : 7-30-09
ec	eiving	Facility : CES Envir	onmental (Port-Arthur)	
anning.		A	Signature: Stale:	Date: 7-30-0

White (Generator Return Copy)

Yellow (Transporter Copy)

Pink (Receiving Facility Copy)

White (Generator Return Copy)

Yellow (Transporter Copy)

Bill Of Lading #:

.88985

Fold	er ID :	CHg Mapl	o Refinery (I athenic Cau	Chgo - Lak stic Recyc	ie Charlae, LA) ling			
Orig	ginal – S	hipper	Provided	Short F	orm Straight Bill of Lading - Not Negotiab	le – Domestic		
SHIPPED FROM:					PO #4504854067			
Citgo Refinery 4401 LA Hwy 108 Lake Charles , LA 70665 (337) 708-6344					11a) PA-2641			
The property described below, in apparent good order, o					· · · · · · · · · · · · · · · · · · ·			
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utrni	tted to Shipp	er or the "B	lilled to" party a		sent of Shipper. The extra copy of this Bill of Lading, furnished at the	e ume de sarpanere, muse de serbemed do ese meigre e		
100	NSIGN): ital (Port	Arthur	CARRIER: CES Environmental	i /Dart Arthur)		
	O Guffy			. Mului	2420 Guifway Dr.	(Cottyunu)		
	t Arthur	· · · · · · · · · · · · · · · · · · ·			Port Arthur , TX 77	640		
az	Conta No.	Type	Total Quantity	Unit WUVoi	Description of Materials, Special Ma	rks, and Exceptions		
es es	1	тт		P	RQ< Corrosive liquids, n.o.s. (naphths	enic caustic), 8, UN1760, PGII		
			, Maril		통하는 사용하는 하는 것이 되는 것이 없어 하면 하면 다음이다. 보통하는 사람들은 기를 하는 것이 되었다면 하는 것이 되었다.			
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er)	: <u>Kru</u>	iin h	Vilson		Signature: Kelling	Date : 7-24 0 0		
ece	eiving l	Facilit	y:CES	Environ	mental (Port Arthur)	The Control of the Co		
er	huch	ue I	Yletock	/	Signature	Date :		
710					Later than the second s	7-28-09		

Pink (Receiving Facility Copy)

Bill Of Lading #:

89254

Folder ID : Process Solu Spent Naphib	tions (Total Petrochemica) - Port A ente Caustio	rithun P.O. # 2006	031543	Lcac
		I of Lading – Not Negotiable		39
HIPPED FROM:				
otal Petrochemicals I	nc -Port Arthur, TX	11a) PA-3093		
600 32nd Street		11b)		
ort Arthur , TX 77642	-7901			
(09) 963-6825				
ild carrier (the word carrier being unde rry to its unusual place of delivery at a lods; it is not of itself a contract of carri y time interested in all or any of said p tween shipper and carrier or intermed	ratiod firelighted files as meaning any per aid destination, if on its route, otherwise to age, it is multistly agreed, as to each carn roperly, that every service to be performedary.	of condition of packages unknown), marked, or son or corporation authorized to be in posses a deliver to another carrier on the route to sal- ter of all or as to any said over all or any port d hereunder shall be subject to all the terms of the governing contract with Bripper. No char	salon of the property under the contra d destination. This Bill of Lading is a tion of said route to destination, and a and conditions contained in the appli-	ct) agree: receipt for s to each cable con
Stripper or the "Billed to" party Witness cirrifted to Shipper or the "Billed to" par	prior written consent of Shipper. The extra	rcopy of this Bill of Lading, furnished at the ti	me of shipment, must be shached to	the freign
ONSIGNED TO:		CARRIER:		
ES Environmental (Po	ort Arthur	CES Environmental	(Port Arthur)	
420 Gulfway Dr.		2420 Gulfway Dr.		
النواب المنافسينية كالقبينا المراز والراز والرازوان		Physical Action with the second secon		edi efity
s is to certify that the product stated be dicable regulations of the Department of "carrier's or shippe"s weight." rynodal Certificale: All Information req n on the face of this bill of lading. The	of Transportation. If this Shipment moves in uired by Federal Highway Administration in shipper name herein is the tendering party.	Port Arthur, TX 776 ckaged, marked and labeled and is in proper between to ports by a carrier by water, the lab regulations at 49 CFR 330.500 implementing iption of Materials, Special Mark	condition for transportation according requires that the Bill of Lading shall the Intermodal Safe Container Act of	i state wh
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Bill Of Lading #

Folder ID :	Citgo Refinery (Citgo - Lake Charles, Haphthexic Casello Recycling	
Original – Shi	pper Provided Short Form Stra	ight Bill of Lading – Not Negotiable – Domestic
SHIPPED FF Citgo Refine 4401 LA Hw Lake Charles (337) 708-63	ory ny 108 ns , LA 70665	PO #4504854067 11a) PA-2641 11b) 11c)

said conter (the wood carder being unversional throughout this as meaning any person or corporalize authoritized to be in possession of the properly under the contract) agrees to carry to its unusual place of delivery at said destination. If on its rouge, otherwise to deliver to another carrier on the route to said destination. This Bill of Lading is a receipt for goods, it is not of itself a contract of carriage. It is mutually agreed, as to each carrier of all or as to any said over all or any portion of said route to destination, and as to each party at any time interested in all or any of said properly, that every service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract between shipper and carrier or intermediany.

For payment. Charges to be billed to Shipper or the "Billed to" party are set forth in the governing contract with Shipper. No charges other than those contained therein may be billed to Shipper or the "Billed to" party without prior written consent of Shipper. The extra copy of this Bill of Lading, furnished at the time of shipment, must be attached to the freight bill submitted to Shipper or the "Billed to" party and sent to:

CONSIGNED TO:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

CARRIER:

CES Environmental (Port Arthur)

2420 Gulivay Dr.

Port Arthur, TX 77640

This is to certify that the product stated below are properly classified, described, packaged, marked and labeled and is in proper condition for transportation according to the applicable regulations of the Department of Transportation, if this Shipment moves between to posts by a carrier by water, the law requires that the Bill of Lading shall state whether it is "cerrier's or shipper's weight."

Intermodal Certificate: All Information regulated by Federal Highway Administration regulations at 43 CFR 390.549 implementing the Intermodal Safe Container Act of 1952 is set forth on the face of this bill of lading. The shipper name herein is the lendering party.

Haz	Cont	aner	Total	Unit	Description of Materials, Special Marks, an	id Exceptions
	No.	Type	Quantity	MANOI	마르크 (1 15 1 1 1 15 1 1 1 1 1 1 1 1 1 1 1 1	
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er:	***************************************				Signature :	Date :
arri					t Arthur)	
per:	(4	4:55k	yla		Signature : () ayko	Date: 7-24-0
lece	iving	Facilit	Y; CES	Envirop	mental (Port Arthur)	
Per :	<u> </u>	msto	u Nk	kulo	Signature: Jaul Stubry (152	2- Date: 7-24-09
White	(Generat	or Return	Copy)	Yellow (Transporter Copy) Pink (Receiving Facility Copy)	Golden Rod (Generator 1st Copy

Bill Of Lading #:

89245

#260

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	w		77	36.0	-

Cilgo Refinery (Cilgo - Lake Charles, LA)

Original – Shipper Provided Short Form Straight Bill of Lading – Not Negotiable – Domestic

SHIPPED FROM:
PO #4504854067
Citgo Refinery
11a) PA-2641
4401 LA Hwy 108
11b)
Lake Charles , LA 70665
11c)
(337) 708-6344
11c)

The property described below, in apparent good order, except as noted (content and condition of packages unknown), mentiod, consigned, and destined as indicated below, which said center (the world center being undershoot throughout this as meaning any person or corporation authorities to be in possession of the property under the contract) agrees to carry to its unusual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. This Bill of Lading is a receipt for goods; it is not of itself a contract of carriage. It is mutually agreed, as to each carrier of all or as to any said over all or any portion of said property, that every sarvice to be performed heraunder shall be subject to all the terms and conditions contained in the applicable contract.

Delivers a subject to all the terms and conditions contained in the applicable contract.

For payment: Charges to be billed to Shipper or the "Billed to" party are set forth in the governing contract with Shipper. No charges other than those contained therein may be billed to Shipper or the "Billed to" party without phorwritten consent of Shipper. The extra copy of tres Bill of Lading, furnished at the time of shipment, must be attached to the freight bill, submitted to Shipper or the "Billed to" party and sent to:

CONSIGNED TO:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

CARRIER:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

This is to certify that the product stated below are properly classified, described, packaged, marked and is believed and is in proper condition for transportation according to the applicable regulations of the Department of Transportation, if this Shipment moves between to ports by a carrier by water, the law requires that the Bill of Lading shall state whether it is "carrier's or shipper's weight."

Intermodal Certificate: All Information required by Federal Highway Administration regulations at 49 OFR 380.540 implementing the Intermodal Safe Container Act of 1992 is set forth on the face of this till of lading. The shipper name herein is the tendering party.

No.	Type	Quantity		그 집에 가게 되었다. 그 경기 가장 하면 가장 내가 있는 중요한 경기 때문에 되었다. 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	nd Exceptions
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1	TT	49160	P	RQ< Corrosive liquids, n.o.s. (naphthenic c	austic), 8, UN1760, PGII
7					
Rus	73	ref.		Signature :	Date: 7-27:09
er CE	S Env	ironmen	tal (Por	t Arthur)	
le	loy	Brow	~	Signature : Log Brown	Date: 7-27-09
				물문 보다면 하는 공학은 하고 얼마를 하고 있는데 내일 이 모르고	
-				Signature: State:	Date: 7-28-09
	Rusi r <u>CE</u> Le	er: Citgo F Rusiy 3 r CES Env LeRoy	er: Citgo Refinery Rusty 3 No. Co. r CES Environmen LeRoy Brow	er: Citgo Refinery Rusty 3 No. C. r CES Environmental (Por LeRoy Brown	er; Citgo Refinery Rusty 5 M. Signature:

Bill Of Lading #:

89052

20 267

Foli	tor :	n ·
ıvı	2 TO 1	· .

Process Solutions (Total Petrochemical-Port Arthur) Spent Naphthenic Caustic 2006031543

Load #

Original - Shipper Provided Short Form Straight Bill of Lading - Not Negotiable - Domestic

Mark the state of

7395

SHIPPED FROM:

Total Petrochemicals Inc.-Port Arthur, TX 11a) PA-3093 7600 32nd Street 11b) Port Arthur, TX 77642-7901 11c)

(409) 963-6825 11c)

The property described below, in apparent good order, except as noted (content and condition of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood tracegined this as meaning any person or corporation authorized to be in possession of the property under the contract) agrees to carry to its unusual piace of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. This Bill of Lading is a receipt for goods; it is not of itself a contract of carriage, it is mutually agreed, as to each carrier of all or asy said over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract between shapes and confirm or intermediary.

For payment, Charges to be billed to Shipper or the "Billed to" party are set forth in the governing contract with Shipper. No charges other than those contained therein may be billed to Shipper or the "Billed to" party without prior written consent of Shipper. The extra copy of this Bill of Lading, furnished at the time of shipment, must be attached to the freight bill submitted to Shipper or the "Billed to" party and sent to:

CONSIGNED TO:

CES Environmental (Port Arthur)

2420 Guttway Dr.

Port Arthur, TX 77640

CARRIER:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

This is to certify that the product stated below are properly classified, described, packaged, marked and labeled and is in proper condition for transportation according to the applicable regulations of the Department of Transportation. If this Shipment moves between to ports by a carrier by water, the law requires that the Bill of Lading shall state whether it is "carrier's or shipper's weight."

Intermodal Cartificate. All Information required by Federal Highway Administration regulations at 49 CFR 390.540 Implementing the Information Scale Container Act of 1997 is set forth on the face of this bill of lading. The shipper name hereints the tendering party.

taz	Cont	ques	Total	Unit	Description of Materials, Special Marks, and Exceptions
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arr	ier <u>C</u> l	S Env	rironmen	tal (Por	t Arthur)
	/_/	2n 6	Born		Signature: May 12 Date: 7-32-09
er)	: Len	y s	<i></i>	1904/5-101-0-1010111-10-10-1	
ece	eiving	Facilit	y:CES	Environ	mental (Port Arthur)
ece	eiving	Facilit	y:CES	Environ	그들은 그리고 하는데 하는데, 추진 모양이 되고 있었다고 하는데 얼마는 그렇게 모르다 먹는 그릇도 들어야 한

259

CES Environmental Services, Inc.

Bill Of Lading #:

88984

Maphinenic Caustic Recycling	rleo, LA)
Original Chinas Devided China Commit	Straight Bill of Lading – Not Negotiable – Domestic
SHIPPED FROM:	PO #4504854067
Citgo Refinery	11a) PA-2641
4401 LA Hwy 108	
Lake Charles , LA 70665	
(337) 708-6344	11c)
said carrier (the word carrier being understood throughout this as carry to its unusual place of delivery at said destination, if on its' goods, it is not of itself a contract of carriage, it is mutually agree	noted (content and condition of packages unknown), marked, consigned, and destined as indicated below, which investing any person or corporation authorized to be in possession of the property under the contract) agrees to route, otherwise to deliver to another cornier on the route to said destination. This Bill of Lading is a receipt for d, as to each carrier of all or as to any said over all or any portion of said route to destination, and as to each party ce to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract
For payment. Charges to be billed to Shipper or the "Billed to" part to Shipper or the "Billed to" party without prior written consent of S submitted to Shipper or the "Billed to" party and sent to:	ty are set forth in the governing contract with Shipper. No charges other than those contained therein may be billed Shipper. The extra copy of this Bill of Lading, furnished at the time of shipmers, must be attached to the freight bill
CONSIGNED TO:	CARRIER:
CES Environmental (Port Arthur)	CES Environmental (Port Arthur)
2420 Gulfway Dr.	2420 Gulfway Dr.
Port Arthur , TX 77640	Port Arthur , TX 77640
Haz Container Total Unit Quantity Wt/Vol	Description of Materials, Special Marks, and Exceptions
Ves 1 TT 44040 P	RQ< Corrosive liquids, n.o.s. (naphthenic caustic), 8, UN1760, PGII
(es 1 TT 44040 P	RQ< Corrosive liquids, n.o.s. (naphthenic caustic), 8, UN1760, PGII
Nick Kyle	RQ< Corrosive liquids, n.o.s. (naphthenic caustic), 8, UN1780, PGII
Nes 1 TT 44040 P Nick Kyle Shipper: Citgo Refinery	
Nick Kylc Shipper: Citgo Refinery Per: Sig	pnature : Date :
Shipper: Citgo Refinery Per: Signarier CES Environmental (Port Art	pnature: Date:
Shipper: Citgo Refinery Carrier CES Environmental (Port Art	pnature: Date:

Bill Of Lading #:

89196

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- ₹		ar'		~	٠

Cilgo Refinery (Cilgo - Lake Charles, LA)

Haphthenic Caustic Recycling

Original - Shipper Provided Short Form Straight Bill of Lading - Not Negotiable - Domestic

449

 SHIPPED FROM:
 PO #4504854067

 Citgo Refinery
 11a) PA-2641

 4401 LA Hwy 108
 11b)

 Lake Charles , LA 70665
 11c)

 (337) 708-6344
 11c)

The property described below, in apparent good order, except as noted (content and condition of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier belog understood throughout this as meaning any person or corporation authorized to be in possession of the property under the contract) agrees to carry to its unusual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. This Bill of Lading is a receipt for goods, it is not of itself a contract of carriage, it is mutually agreed, as to each party at any linerested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract between shipper and carrier or intermediary.

For payment: Charges to be billed to Shipper or the "Billed to" party are set forth in the governing contract with Shipper. No charges other than those contained therein may be billed to Shipper or the "Billed to" party without prior written consent of Shipper. The extra copy of this Bill of Lading, furnished at the time of shipment, must be attached to the treight bill submitted to Shipper or the "Billed to" party and sent to:

CONSIGNED TO:

CES Environmental (Port Arthur); Oc

2420 Gulfway Dr.

Port Arthur, TX 77640

CARRIER:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

This is to certify that the product stated below are properly Classified, described, packaged, marked and labeled and is in proper condition for transportation according to the applicable regulations of the Department of Transportation. If this Shipment moves between to ports by a carrier by water, the law requires that the Bill of Lading shall state whether it is "carrier's or shippen's weight."

Intermodel Certificate: All Information required by Federal Highway Administration requisitors at 49 CFR 390.54© implementing the Intermodal Safe Container Act of 1997 is set forth on the face of this bill of lading. The shipper name iterain is the tendering party.

Haz	Conf	akner	Total	Unit	Description of Materials, Special Marks, ar	nd Exceptions
	No.	Туре	Quantity	WtVoi		
Yes	1	TT	45,70)P	RQ< Corrosive liquids, n.o.s. (naphthenic c	austic), 8, UN1760, PGII
	10	Say.			하다 함께 보이라면 말했다. 그는 그는 그는 사이 하는 것을 하나 있는 것은 부분들은 하는 것들이 되었다. 그는 그는 것을 보는 것도록	
				-		
		-		Standard and American		
			~			
Ship	Der:	Citgo F	lefinery	January San San San San San San San San San San	医牙髓 医皮肤 医二氏试验检尿病 医皮肤 医二氯基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲	
Per(∞	Rusti	, 3.	45	Signature: PLU9	Date: 7.28-09
					t Arthur)	
Per	: 60	Pay B	roun	-	Signature : Rekey Br	Date : 2-28-09
	Park Contract		Maria Baran		mental (Port Arthur)	
Per	*				Signature :	Date:
White	(Genera	tor Return	Copy)	Yellow (1	Fransporter Copy) Pink (Receiving Facility Copy)	Golden Rod (Generator 1st Copy)

Bill Of Lading #:

88911

		10	

Citgo Refinery (Citgo - Lake Charise, LA)

Original – Shipper Provided Short Form Straight Bill of Lading – Not Negotiable – Domestic

SHIPPED FROM:
PO #4504854067
Citgo Refinery
11a) PA-2641
4401 LA Hwy 108
11b)
Lake Charles , LA 70665
11c)
(337) 708-6344
11c)

The properly described below, in apparent good order, except as noted (content and condition of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this as meaning any person or corporation authorized to be in possession of the properly under the contract) agrees to carry to its unusual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. This Bill of Lading is a receipt for goods; it is not of itself a contract of carriage, it is mutually agreed, as to each carrier of all or as to any said over all or any portion of said route to destination, and as to each party at any time interrested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract between shipper and carrier or intermediary.

For payment: Charges to be billed to Shipper or the "Billed to" party are set forth in the governing contract with Shipper. No charges other than those contained therein may be billed to Shipper or the "Billed to" party without prior written consent of Shipper. The extra copy of this Bill of Lading, furnished at the time of shipment, must be attached to the freight bill submitted to Shipper or the "Billed to" party and sent to.

CONSIGNED TO:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

CARRIER:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

This is to certify that the product stated below are properly classified, described, packaged, marked and labeled and is in proper condition for transportation according to the applicable requisions of the Department of Transportation. If this Sixtyment represents by a carrier by water, the law requires that the Bill of Lading shall state whether it is "carrier's or shipper's weight."

Intermodal Certificate: All Information required by Federal Highway Administration required on the 1982 is set Forth on the face of this bill of lading. The shipper name herein is the tendening party.

Type	38800	WWO!	RO< Corres	ive liquids, r	.o.s. (naphthar	nic caustic), 8, U	JN1780, PGII
			RO< Corros	ive liquids, r	.o.s. (naphther		
Citgo R	efinery						
Citgo R	efinery		and the second				
Citgo R	efinery						
Citgo R	efinerv		and the second				
Citgo R	efinerv		多·维 (平)		1 1		
(a.) . i . i . i . i . i . i . i . i . i) p /	///		<
			Signature : \underline{Z}	wh	Soul 6	<u> </u>	7-16-0
ES Env	ironmen	tal (Por	t Arthur)				or community.
Zor	1.70	_	Signature :	- 7	\cong	Date :	7-14-09
Facilit	v:CES	Environ	mental (Port Ar	thur)			
usto	w M	aleche	Signature : _	Jalole		Date:	7-15-0
	Sur Facilit usto	Solo Fr	Sous Fracility: CES Environ ustow Maleche	ES Environmental (Port Arthur) Sour Signature: Facility: CES Environmental (Port Arthur) Listona Malecle Signature:	ES Environmental (Port Arthur) Superior Signature: Facility: CES Environmental (Port Arthur) Listona Malecle Signature: Subde	ES Environmental (Port Arthur) Sous Frick Signature: Facility: CES Environmental (Port Arthur) Listona Malecle Signature: Suddle i	ES Environmental (Port Arthur) Substrict Signature: Date: Facility: CES Environmental (Port Arthur) Listona Malache Signature: Date:

Bill Of Lading #:

88831

	Spent Haphthen		ochemical-Port Arthun	P.O. #	200	6031543	Loa
Original – S	hipper Provided	Short Fon	m Straight Bill of L	ading – Not Ne	gotiable -	– Domestic	13
SHIPPED !	FROM:						
Total Petro	chemicals inc	:-Port Art	hur, TX	11a) PA-:	8093		
7600 32nd	Street			11b)			
	r , TX 77642-7	7901		11c)			
(409) 963-	6825			11c)			
said certier (the wo carry to its unusual goods, it is not of its any time interested	ord camter being understo place of delivery at said self a contract of camage	ood throughout the destination, if on e. it is mutually a party, that every s	is as meaning any person or c ills route, otherwise to deliver greed, as to each carrier of all	orporation authorized to to another carrier on the or as to any said over a	be in possess roule to said of it or any portio	resigned, and destined as indication of the property under the cort destination. This Bill of Lading is an of said route to destination, and it conditions contained in the app	iraci) agrees to a receipt for i as to each pa
o Shipper or the "Bl		or written compen				us other than those contained line ie of shipmeni, must be sitisched	
CONSIGNE	ED TO:			CARRIER:			
CES Enviro	nmental (Por	t Arthur)		CES Environr	nental (l	Port Arthur)	
2420 Guffw	ay Dr.			2420 Gulfway	Or.		
	, TX 77640			Port Arthur ,		O ondition for transportation accord	
	Quantity	Unit Wt/Voi	Description	of Materials, Spe	cial Marks	, and Exceptions	
No.]	Type Quantity	WEVOI			of charter or the later of the	, and Exceptions ohthenic caustic acid),	8, PGII
No.	Type Quantity 15670	West of	RQ, UN1780, Cor	rosiye (iquids, n	o.s. (Nap	inthenic caustic acid),	8, PGII
No.]	Type Quantity 15670	WEVOI	RQ, UN1780, Cor	rosiye (iquids, n	o.s. (Nap	inthenic caustic acid),	9, PGII
No.]	Type Quantity 15670	West of	RQ, UN1780, Cor	rosive liquids, ri	o.s. (Nap	inthenic caustic acid),	8, PGII
No. J	Type Quantity 15670 1567	WUNGI BS- GAILENS	RQ, UN1780, Cor	rosive liquids, n	o.s. (Nap	inthenic caustic acid),	9, PGII
No. J	Type Quantity 15670 1567	WUV of	RQ, UN1780, Cor TICKE P.P.G.	rosive liquids, n	o.s. (Nap	inthenic caustic acid),	8, PG(I)
No. No.	Type Quantity 15670 1567	Wevel Solution GAILER Micals Inc.	RQ, UN1780, Cor TiCKE PPG. -Port Arthur, TX Signature:	rosive liquids, n	o.s. (Nap	hthenic caustic acid), 3 9 7 Date:	
No. No.	Type Quantity (660) 304 Otal Petrocher	wuvul	RQ, UN1780, Cor TiCKE PPG. -Port Arthur, TX Signature:	rosive liquids, n	o.s. (Nap	ohthenic caustic acid),	
hipper: Ther: CEnter: 100 Per:	Type Quantity 15670 1304 Otal Petrocher S Environment THL acility: CES	wuvul SS- GAllade micals inc stal (Port)	RQ, UN1780, Cor T'CKE PPG. -Port Arthur, TX Signature: Arthur) Signature: 7	rosive liquids, no F # 6	o.s. (Nap	hthenic caustic acid), 3 9 7 Date: 7-7	4-09
hipper: Ter:	Type Quantity 15670 304 otal Petrocher S Environmen	wuvul SS- GAllade micals inc stal (Port)	RQ, UN1780, Cor T'CKE PPG. -Port Arthur, TX Signature: Arthur) Signature: 7	rosive liquids, no F # 6	o.s. (Nap	hthenic caustic acid), 3 9 7 Date:	4-06

CES Environmental

Bill Of Lading #:

88794

Folde	r ID :		Refinery (Cal		o Charleo, LA)			
Orig	inal – Sh	ipper	Provided	Short F	orm Straight Bill of Lading – Not Negotiable – Domestic			
SHII	PPED F	ROM	1:		PO #4504854067			
	o Refin				11a) PA-2641			
440	1 LA HV	y 10	8\		116)			
Lak	e Charle	es L	A 70665		· 이번 호텔 및 12 보다 수많이 그렇게 되었다면 하고 있다.			
(337	7) 708-6	344	distribution of		보이는 이 보는 전투 회장 보고 있는 일반이라고 있는 것이 없는 것이다.			
said ca carry to goods; any tin	mier (the wor) its unusum ; it is not of its re interested !	d carrier i place of d of a contr n all or ar	being unviersto elivery at said act of carriage	od throughou destination, i this meduali enty, that eve	cept as noted (content and condition of packages unknown), marked, consigned, and destined as indicated below, which this as meaning any person or corporation authorized to be in possession of the property under the contract) agrees to f on its route, otherwise to deliver to another carrier on the route to said destination. This SIII of Lading is a receipt for y agreed, as to each carrier of all or as to any said over all or any portion of said route to destination, and as to each par y service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract			
to Shipp	er or the "Bill	ed to pa	lied to Shipper ny without pric illed to "pany z	n maditeri cole	I to" party are set forth in the governing contract with Shipper. No charges other than those contained therein may be bli sent of Shipper. The extra copy of this Bill of Lading, turnished at the time of shipmers, must be adacted to the freight bi			
CON	ISIGNE	D TO) ?		7:00 am. CARRIER: //:30 am			
	1.00		tal (Port	Arthur	CES Environmental (Port Arthur)			
5 5 5) Gulfwa				2420 Gulfway Dr.			
	Arthur				Port Arthur , TX 77640			
Taz	the face of this Confede	s bill of ic	Total Quantity	Unit WWVoi	Highway Adfisition regulations at 43 CFR 350,540 Implementing the Intermodal Safe Container Act of 1992 is set ein is the tendering party. Description of Materials, Special Marks, and Exceptions			
/es	1	TT		P	RQ< Corrosive liquids, n.c.s. (naphthenic caustic), 8, UN1760, PGII			

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Per:	1740		FIRE	CICH	Signature: 1001/664 6152 Date: 7-121-09			
Carri	er CES	3 Env	ironmen	tal (Poi	t Arthur)			
Per :	<u> </u>	<u>Z0P</u>	7C.	IKS	Signature : 9 - Date : 7-14-09			
Rece	iving F	acilit	y:CES	Environ	mental (Port Arthur)			
Per :	John	sta	ic Male	cle	Signature: Glale Date: 7-14-9			
7 77 7	1							

White (Generator Return Copy)

Yellow (Transporter Copy)

Bill Of Lading #:

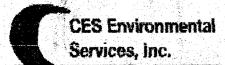
88797

	and the second of				
Folde	er ID :				(Targa - Mont Belvelu) a processed & PACES
Orig	jinal – S	Shipper	Provided	Short F	orm Straight Bill of Lading – Not Negotiable – Domestic
51-11	PPFD	FROM	A :		
Tar	ga Mic	istrear	n Service	es LP	11a) PA-2806
103	19 Hw	ny 146	North		
Mor	nt Belv	rieu . T	X 77580		
(58.	1) 385	-3215			나는 하는 경기를 하면 하는 것이 되었다. 그는 사람들은 사람들은 사람들이 되었다.
maid co carry b scoods: are fin between	sider (the v o its unusu in is not of se intereste shelvipper (and carrier and place of c diself a com so in all or a and carrier	being undersic felivery at said tract of carriage my of said prop or intermediany	ed throughout destination, it is mutual erty, that eye	cept as noted (content and condition of packages unknown), marked, consigned, and destined as indicated below, which if this as meaning any person or composition authorized to be in possession of the property under the contract) agrees to for its route, otherwise to deliver to another carrier on the route to said destination. This Bill of Lading is a receipt for by agreed, as to each carrier of all or as to any said one all or any portion of said route to destination, and as to each party green to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract of party are set forth in the governing contract with Shipper. No charges other than those contained therein may be bills of party are set forth in the governing contract with Shipper. No charges other than those contained therein may be bills.
ល ទាំនព្	per or the	Williad to "pa		a willen con	sent of Shipper. The extra copy of this Bill of Lading Turnished at the limb of shipment, must be attached to the treight bill
	. M. and Photograph of the	IED TO	eran Maria es e e e e e e e e e e e e e e e e e e	V ca) N cap catabas in larger and also	CARRIER:
4		111111111111111111111111111111111111111		Arthur	나는 이렇게 모르게 되었다. 그 이 집중은 하는 이번 시민들은 경기를 하면 하는 것은 사람들이 되었다. 그 그 사람들이 되는 사람들이 되었다. 그 사람들이 살아 없는 사람들이 되었다.
CES Environmental (Port Arthur) 2420 Gulfway Dr					4904 Griggs Rd.
200	1	r . TX			Houston , TX 77021
enio: Aper	entities en la faction en	O-THEORY COMPANY	egetonsku, etpsperu uzasta		그리는 이번 수는 이번 이 사람이 있는데 하다는데 가는 그를 가는 사람들이 되었습니다. 그는 그는 그는 그는 그는 것은 것은 것은 것은 것을 하는데 되었습니다. 그렇게 하는 것을 받는데
laz.	Cont No.	Type	Total Quantity	Unit wovoi	Description of Materials, Special Marks, and Exceptions
		-			
(es inip)	no.	Type TT Targa Targa	Quantity Midstrea	m Serv	UN1824, Sodium hydroxide solution, 8, PGII (LSNG spent caustic w/ammonia) ices LP Signature: Mland Who Date: 7-14-09
Jer Jeri Jer	no.	Targa Ilarga Ilard ES Em	Midstrea	m Serv 5011 tal Sen	UN1824, Sodium hydroxide solution, 8, PGII (LSNG spent caustic w/ammonia)

Pink (Receiving Facility Copy)

EPAPA001000524

tr1#266



Bill Of Lading #:

88580

	Process Solutions (Total Petrochemical-Peri Arthur) Separat Haptitionic Caustic P.O. #2006031543	
Original - Sh	ipper Provided Short Form Straight Bill of Lading - Not Negotiable - Domestic Load # /3	3 S

SHIPPED FROM:	
Total Petrochemicals IncPort Arthur, TX	11a) PA-3093
7600 32nd Street	11b)
Port Arthur , TX 77642-7901	11c)
(409) 963-5025	110

The property described below, in apparent good order, except as rivided (content and condition of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this as meaning any person or corporation authorized to be in presession of the property under the contract) agrees to carry to its unusual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. This Bill of Lading is a receipt for goods; it is not of itself a contract of carriage, it is mutually agreed, as to each carrier of all or as to any said over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract between shipper and carrier or intermediany.

For payment. Charges to be billed to Shipper or the "Billed to" party are set forth in the governing contract with Shipper. No charges other than those contained therein may be billed to Shipper or the "Billed to" party without prior written consent of Shipper. The extra copy of this Bill of Lading, furnished at the time of shipment, must be stacked to the treight bill submitted to Shipper or the "Billed to" party and sent to:

CONSIGNED TO: CARRIER:
CES Environmental (Port Arthur) CES Environmental (Port Arthur)

Total Unit

2420 Gulfway Dr.

Container

Haz

Port Arthur, TX 77640 Port Arthur, TX 77640

This is to certify that the product stated below are properly classified, described, packaged, marked and labeled and is in proper condition for transportation according to the applicable regulations of the Department of Transportation. If this Shipment moves between to ports by a carrier by water, the law requires that the Bill of Lading shall state whether it is "carrier's or shipper's weight."

2420 Gulfway Dr.

Description of Materials, Special Marks, and Exceptions

Intermodal Certificate: All Information required by Federal Highway Administration regulations at 49 CFP 390 546 implementing the Intermodal Safe Container Act of 1992 is set forth on the face of this bill of lading. The shipper name herein is the tendening party.

No. Type Quantity WVVol	resulption of materials, special mains, a	III LAUTHINIS
No 1 45440 165. 5283 ballon	RQ, UN1780, Corrosive liquids, n.c.s. (Napht)	
Shipper: Total Petrochemicals		- 0 0
Per: -/07A	Signature: M. Bennut	_ Date : 7-8-10
Carrier GES Environmental (Po		
Per MISSAYLOC	Signature : C. Signature	Date : 7-8-0
Receiving Facility : CES Environ	nmental (Port Arthur)	
Per: Johnstone Malecle	Signature:	Date: 7-19-09
White (Generator Return Copy) Yellow	(Transporter Copy) Pink (Receiving Facility Copy)	Golden Rod (Generator 1st Copy)

Bill Of Lading # :----

88792

CES Environmental Services, Inc.

2	nte	-	153	Ġ

Cilgo Refinery (Cilgo - Éake Charlee, LA) Maphthenic Caustic Recycling

Original – Shipper Provided Short Form Straight Bill of Lading – Not Negotiable – Domestic

SHIPPED FROM:

Citgo Refinery

11a) PA-2641

4401 LA Hwy 108

11b)

Lake Charles , LA 70665

11c)

(337) 708-6344

The property described below, in apparent good order, except as noted (content and condition of packages unknown), marked, consigned, and destined as indicated below, which said carries (the word carrier being understood throughout this as revening any person or corporation authorities) in the possession of the property under the contract) expens to carry to its unusual place of delivery at said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. This Bill of Lading is a receipt for goods, it is not of itself a contract of carriage. It is maturally agreed, as to each carrier of all or any portion of said route to destination, and as to each party at the interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract between stripper and carrier or intermediary.

For payment: Charges to be billed to Shipper or the "Billed to" party are set forth in the governing contract with Shipper. No charges other than those contained therein may be billed to Shipper or the "Billed to" party without prior written consent of Shipper. The extra copy of this Bill of Lading, furnished at the time of shipment, must be sitscried to the freight bill submitted to Shipper or the "Billed to" party and sent to:

CONSIGNED TO:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

CARRIER:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

This is to certify that the product stated below are properly classified, described, packaged, marked and labeled and is in proper condition for transportation according to the applicable regulations of the Department of Transportation. If this Shipment moves between to ports by a certier by water, the law requires that the Bill of Lading shall state whether it is "carrier's or shipper's Weight."

Intermodal Certificate: All Information required by Federal Highway Administration regulations at 43 CFR 390.54th Implementing the Intermodal Bate Container Act of 1992 is set forth on the face of this bill of lading. The shipper name herein is the tendening party.

Haz Container Total				Unit			
Γ	No.	Туре	Quantity	Wilvei			
/es	1	ार	5000	⁷ p	RQ< Corrosive liquids, n.o.s. (naphthenic caustic), 8, UN1760, PGII		
			***************************************	************	다는 그리다는 함께 가능하는 것이 되는 것으로 함께 되어 된다. 그는 그 것 같은 것은 그렇다는 동안 보는 것이 하는 것이 되었다. 그런 것 같은 것이 되는 것이 없는 것이 없는 것이 없다. 그런 것이 없는 것이 없는 것이 없다. 동안 보는 것이 많은 사람들은 것이 되는 것이 되었다. 그런 것이 되었다. 하는 일반에 하는 것이 되었다.		
		-					
		-					
		•			그는 사람은 역하는 그 등로 집에 하는데 되었다고 있다. 교육에 이자 모양이라고 말하는 것 같다. 그는 사람들은 사람들이 하는데 보고 있는 것 같다. 교육이 되었다고 있는데 보안 등로 하나 모양을 했다.		
······ ···		Titan E) ofinan		MAL. AU		
1.50		<u>Jugo r</u>	lefinery		Signature: Down Lords Date: 7-10-0,		
er.	*				Signature : Date :		
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Bill Of Lading #:

88419

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Cilgo Refinery (Cilgo - Lake Charles, LA)

Naphthenic Caustic Recycling

Original - Shipper Provided Short Form Straight Bill of Lading - Not Negotiable - Domestic

SHIPPED FROM: Citgo Refinery

4401 LA Hwy 108

Lake Charles , LA 70665

(337) 708-6344

PO #4504854067

11a) PA-2641

116)

11c)

11c)

The property described below, in apparent good order, except as noted (content and condition of packages unknown), imarked, consigned, and destined as indicated below, which said carrier (the world carrier being understood throughout this as meaning any person or corporation authorized to be in possession of the property under the contract) agrees to carry to its unusual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. This Bill of Lading is a receipt for goods; it is not of itself a contract of carriage, it is mutually agreed, as to each carrier of all or as to any said over all or any portion of said route to destination, and as to each party at any time interested in ail or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract between shipper and conter or intermediate.

For payment: Charges to be billed to Shipper or the "Billed to" party are set forth in the governing contract with Shipper. No charges other than those contained therein may be billed to Shipper or the "Billed to" party without prior written consent of Shipper. The extra copy of this Bill of Lading, furnished at the time of shipmers, must be shacked to the freight bill submitted to Shipper or the "Billed to" party and sent to:

CONSIGNED TO:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

CARRIER:

CES Environmental (Port Arthur)

2420 Gulfway Dr.

Port Arthur, TX 77640

This is to certify that the product stated below are properly classified, described, packaged, marked and labeled and is in proper condition for transportation according to the applicable regulations of the Department of Transportation, if this Shipment moves between to ports by a carrier by water, the law requires that the SIII) of Lading shall state whether it is "carrier's or shipper's weight."

Intermodal Certificate: All Information required by Federal Highway Administration requisitors at 45 CFR 380.546 implementing the intermodal Safe Container Act of 1992 is set forth on the face of this bill of lading. The shipper name herein is the tendering party.

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Bill Of Lading #:

88579

Folder ID :	Process Solutions (Total Petrochemical-Pe Spent Haptithenic Caustic	1. 0. # 200603,1543
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Total Petr	rochemicals IncPort Arthur, TX	11a) PA-3093
7600 32n	d Street	
Port Arthu	лг , ТХ 77642-7901	
(409) 963	-6825	
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CONSIGN	IED TO:	CARRIER:
CES Envir	onmental (Port Arthur)	CES Environmental (Port Arthur)
2420 Guifi	way Or.	2420 Gulfway Dr.
Port Arthu	r , TX 77640	Port Arthur , TX 77640
No.	Type Quantity WtVol RQ, UN1 P RQ, UN1 SJ90 Lallons.	760, Corrosive liquids, n.o.s. (Naphthenic caustic acid), 8, PGII Ticket # 049862
hipper:	Total Petrochemicals IncPort Arti	
Per : <u>70//</u>	AL Signature	77 Sanner Date: 1-1-09
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older ID : Targa/Mida/ream Service (Targa - LSNC Caustic w/Ammonia proces	
inginal – Shipper Provided Short Form St	traight Bill of Lading – Not Negotiable – Domestic
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991) 385-3215	생활하다 한 마른바이 시민 프랑스를 사용했다. 기일을 하는 기를
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ONSIGNED TO:	CARRIER:
ES Environmental (Port Arthur)	CES Environmental Services, Inc.
120 Guliway Dr	4904 Griggs Rd
ort Arthur , TX 77640	Houston , TX 77021
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Bill Of Lading #:

89454

#259

Folder ID : Citgo Refinery (C Naphthenic Caus	itgo - Lake Charlee, LA) tic Recycling	
Original – Shipper Provided	Short Form Straight Bill of Lading – Not Negotiable – Domestic	
SHIPPED FROM:	PO #4504854067	
Citgo Refinery	11a) PA-2641	*
4401 LA Hwy 108	11b)	

The property described below, in apparent good order, except as noted (content and condition of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this as meaning any person or corporation authorized to be in possession of the property under the contract) agrees to carry to its unusual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. This Bill of Lading is a receipt for goods; it is not of itself a contract of carriage, it is mutually agreed, as to each carrier of all or as to any said over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract between shipper and carrier or intermediany.

For payment: Charges to be billed to Shipper or the "Billed to" party are set forth in the governing contract with Shipper. No charges other than those contained therein may be billed to Shipper or the "Billed to" party without prior written consent of Shipper. The extra copy of this Bill of Lading, furnished at the time of shipment, must be attached to the freight bill submitted to Shipper or the "Billed to" party and sent to:

CONSIGNED TO:

CES Environmental (Port Arthur)

2420 Guffway Dr.

Port Arthur, TX 77640

Lake Charles, LA 70665

(337) 708-6344

CARRIER:

ffc)

CES Environmental (Port Arthur)

2420 Guffway Dr.

Port Arthur, TX 77640

This is to certify that the product stated below are properly classified, described, packaged, marked and labeled and is in proper condition for transportation according to the applicable regulations of the Department of Transportation. If this Shipment moves between to ports by a carrier by water, the law requires that the Bill of Lading shall state whether it is "carrier's or shipper's weight."

Intermodal Certificate: All Information required by Federal Highway Administration regulations at 49 CFR 390.54© implementing the Intermodal Safe Container Act of 1982 is set forth on the face of this bill of lading. The shipper name herein is the tendering party.

Haz	Conti	iner	Total	Unit 1	Descripti	on of Materials, Spec	ial Marks, and	l Exceptions	
ļ	No.	Type	Quantity 	WUY 01 			·	·	
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RE: 3am tomorrow

RE: 3am tomorrow

Jennifer Rust

Sent: Wednesday, July 01, 2009 5:09 PM

To: Matt Bowman; Jay Matlock; Miles Root; Bo Cumberland

Cc: Steve Stricker

If the w/w tank is at capacity then it will need to be treated w/ the bleach then sent to Houston for processing. When room is available the current trailers containing w/w will be emptied into the w/w tank.

Thank You!

Jennifer Rust

Direct: 713-800-7907 Cell: 713-367-8581

From: Matt Bowman

Sent: Wednesday, July 01, 2009 4:55 PM

To: Jennifer Rust; Jay Matlock; Miles Root; Bo Cumberland

Cc: Steve Stricker

Subject: RE: 3am tomorrow

Just a point of clarification on the lab test: you will add 7.69 ml. of a mixture of 1001 and 1003 (not 7.69 ml of each!)

From: Jennifer Rust

Sent: Wednesday, July 01, 2009 4:32 PM **To:** Jay Matlock; Miles Root; Bo Cumberland

Cc: Matt Bowman; Steve Stricker

Subject: 3am tomorrow

Today –

• Frac tanks 1000 & 1003 and all Targa trailers need to be checked to insure no solids or oil is present. If present they must be filtered.

Prior to loading / unloading barge samples need to be pulled & mixed following the ratio below to insure color, odor, solids, oil are acceptable. This material must appear similar to Citgo's typical spent caustic. In a 100 milliliter container mix the following;

- 7.69 ml of w/w from 1000 & 1003
- 7.69 ml of Targa material
- 84.6 ml of representative barge sample

https://owa3.intermedia.net/owa/?ae=Item&t=IPM.Note&id=RgAAAAACfou%2bjchNSJk... 7/2/2009

Tomorrow -

RE: 3am tomorrow

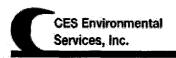
- Targa trailers to be put into barge (see below)
- Frac tanks 1000 & 1003 (apx. 6 loads) need to be put into barge (see below)
- 258 & 259 need to be unloaded into w/w tank & entire tank, mixed & treated w/ bleach until phenols are less than 1,000. Loads should then be scheduled into Houston for processing.

Miles / Bo or anyone has any additional comments or suggestions please let us know.

Compartment #1	Compartment#2	Compartment#3
2 -Targa trailers	1 -Targa Trailer	2 -Targa trailers
2 w/w loads from 1000/1003	2 w/w loads from 1000/1003	2 – w/w loads from 1000/1003

Thank You,

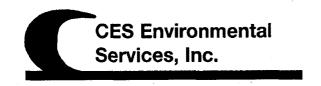
Jenny Rust



4904 Griggs Road Houston, TX 77021 Office: (713) 676-1460 Direct: (713) 800-7907 Cell: (713) 367-8581 Fax: (713) 748-8664

jrust@cesenvironmental.com

Visit us at http://cesenvironmental.com



To: Matt Bowman, Jay Matlock

Date: 6/25/09

Cc: Greg Bowman, Prabhaker, Jose Acosta, Steve Stricker,

Clint Hopkins, Sam Brown, Bo Cumberland

From: Miles Root Lab Memo: 09-125

Subject: PACES Nap Acid Brine Solvent Extraction Process

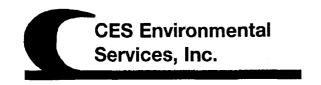
A solvent extraction and regeneration process has been developed to deal with the hazardous waste water produced from the production of naphthenic acids at PACES, while minimizing the use of bleach. This system consists of using a mixture of HAN (heavy aromatic naphtha) and DIBK (diisobutyl ketone) to extract the phenolic compounds from the brine and changing it from hazardous waste water to non hazardous. The solvent is regenerated using a 10% caustic solution which, when spent, becomes a great feedstock for the production of cresylic acids.

Overview of Solvent Extraction and Regeneration Process

The nap acid brine is extracted on a 1:1 basis with a solvent consisting of 10 parts HAN (heavy aromatic naphtha) and 1 part DIBK (diisobutyl ketone), initially in 5000 gallons batches. (5500 gallons brine, 5500 gallons solvent). After two separate extraction runs, the solvent will be regenerated on a 1:1 basis with 10% sodium hydroxide. The caustic may be re used numerous times until the wet crude value exceeds 20%, if desired. The resulting waste water brine will have a flash point greater than 140 deg F with total cresols less than 200 ppm, making it non hazardous waste water. The mixing system will use an in-line static mixer, essentially mixing two separate streams together in a specially designed pipe to thoroughly mix two separate streams.

Overview of Naphthenic Acids

Our naphthenic acid comes from the caustic washing of kerosene, which is performed to remove the highly corrosive naphthenic acids. We receive the spent caustic from this caustic washing process. Cresylic acids also present are removed along with the nap acids during this same caustic wash. Cresylic acids boil in a temperature range which allows them to be distilled in both gasoline and kerosene production. Phenol, the lowest boiling cresylic acid, boils around 182 deg C. The cresols, those compounds which cause our waste water to be classified as hazardous, boil at 191 deg C for ortho and 202 deg C for para and meta cresol. Since the gasoline and kerosene boiling ranges overlap and change during the winter to summer production months, cresylic acids are typically present in kerosene, especially if the cresylics are not removed from the gasoline cut with an efficient caustic wash. The gasoline cut is typically in the 40-205 deg C range while the kerosene cut range is 175-325 deg C.



Solvent Extraction Overview

Solvent extraction is an old and well tested technology used in the chemical business for removing impurities. When done properly it is straight forward and simple in operation. The major challenges are the determination of the exact solvent(s) to be used and the elimination of any special restrictions that will be required. For PACES, the final water must have a flash point greater than 140 deg F and total cresols of less than 200 ppm.

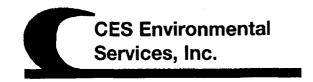
The understanding of chemical principles, literature research and just trial and error have all helped to best fit certain types of chemicals for particular solvent extraction applications over the years. My experience and research indicate that ketones are a vital part of extractions involving phenols. All of the lower and common ketones are water soluble to some degree and have low flash points. A co-solvent was needed to attempt to reduce these shortcomings. Diesel was tested first as a co-solvent, since it is readily available and overlaps the cresylic boiling range. Diesel by itself reduced phenolics from 3000 ppm to 1000 ppm with a single 1:1 extraction. MEK (methyl ethyl ketone) was the first ketone tested since it is readily available commercially and was available on site. Its drawbacks are low flash point and high solubility in water. Diesel was used in conjunction with MEK in an attempt to possibly reduce its flash point. A 1:1 mix of diesel and MEK reduced phenolics to less than 200 ppm. As expected, the flash point on the resulting water was well below 140 deg F. Numerous changes in solvent ratios of diesel and MEK to increase the flash point were unsuccessful, as the solubility of MEK in water is too high for practical use.

A variety of other common solvents were tested, all having their shortcomings and ruled out. These included methylene chloride, toluene, hexane, diacetone alcohol and even rock salt to change the brine strength.

MIBK (methyl isobutyl ketone) was the next ketone tested. It extracted the phenolics as well as MEK but its drawback is its solubility in water as well, even though it is quite low. A variety of MIBK to diesel ratios were tested, but the highest flash point obtainable was 130 deg F.

My search for better solvents to use with the ketones resulted in the use of HAN (heavy aromatic naphtha) instead of the diesel. In addition to better pricing, the aromatic nature of this solvent allows it to extract the cresylics from 3000 ppm down to the 700 ppm level in a 1:1 extraction ratio, even better than diesel. It is also a readily available chemical.

DIBK (diisobutyl ketone) was the next ketone to be tested. DIBK works essentially as well as the more water soluble ketones yet is essentially non water soluble. Its flash point is 120 deg F, much higher than either MEK or MIBK. It is also totally miscible with HAN. Unfortunately, DIBK is a much costlier solvent due to its production costs, but a one-time purchase is still more cost effective than throwing bleach away after every use. The DIBK is such a strong solvent for phenolics that a 1:1 extraction reduces the 3000 ppm phenolics to less than 50 ppm. It is too pricey to use as a single solvent, however, and needs to be blended with the HAN.



Numerous ratios of HAN and DIBK were tested to determine the optimum use of both solvents. A ratio of 10 parts HAN to just 1 part DIBK was determined to be the most cost effective mixture. Phenolics could be reduced from 3000 ppm to less than 200 ppm with one extraction, and less than 400 ppm on a second extraction. Flash point testing on the extracted brine showed it to be greater than 180 deg F.

The best scenario for our extraction at PACES is to use a solvent mixture of 10 parts HAN with 1 part DIBK. For a trial run at PACES I suggest 5000 gallons HAN and 500 gallons DIBK. This will be used to extract two consecutive loads of 5500 gallons nap acid brine, in other words, we will be using a 1:1 extraction ratio.

After two extractions the solvent will need to be regenerated. The total phenolics will rise above the 400 ppm level, which will allow higher levels of cresols to be present.

Solvent Regeneration Overview

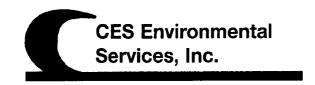
The solvent is regenerated using a 10% solution of sodium hydroxide. The exact concentration does not need to be exactly 10.0%, but should be around 10%. A higher concentration may allow emulsions to form which would take longer to phase separate and will tend to entrain the solvent. The principal concept is that the phenolics are once again brought back into the aqueous phase once they are converted into salts by the use of the caustic. This is the same principal being used to initially extract the phenolics/nap acids from the kerosene.

My work shows that a 10% caustic solution is still effective in reducing the phenolics in the solvent even though it may build up over 20% by volume wet crude acid from repeated use. Considering that after two uses of the solvent it will contain less than 6000 ppm phenolics, this equates to over 30 uses of the same caustic before it potentially becomes spent. Once spent, this caustic will be a good feedstock for cresylic acid production.

The solvent may be regenerated indefinitely. Once purchased, it will be spent after two extractions, regenerated with 10% caustic, and then used again. Allowing the phase separation to be complete to insure that no solvent is lost into the caustic is a critical step. This mixture separates out in the lab within one minute, but a large tank will take longer. Initial testing should include sampling of the caustic phase at timed intervals and then centrifuging testing to insure that it contains no solvent.

Cost Overview

Contact with Oliver Barr at K-Solv has resulted in a price quote of \$1.80/gallon for the HAN. This is readily available and kept in stock. The DIBK is a spot purchase specialty chemical. Current pricing is \$1.55/lb, with a weight of 6.73 lb/gal, or \$10.43/gal. We will be using initially 5000 gallons of HAN and 500 gallons of DIBK. This equates to \$9000 for the HAN and almost \$5216 for the DIBK. We will also need 10% caustic made up occasionally. I do not have spot pricing on caustic, but assuming \$500/dry ton, equates to \$1150 for a 5000 gallon trailer. Total costs are around \$15,366.

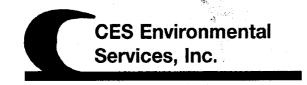


We currently pay \$1.04/gal for bleach delivered to PACES. Bleach treatment of 20% by volume is required to reduce phenolics to the same approximate 300 ppm level in the brine. Total gallons of bleach to equate to \$15,366 are 14,775, which will treat 73,875 gallons of brine. This is a rough estimate, but workable. After approximately 75,000 gallons of brine are treated with bleach, we are past the break-even point for this solvent extraction system.

Concerns

There are several areas of concern that will again be addressed with this processing. Starting up a new process will always bring new challenges due to unfamiliarity to the system. The good thing is that solvent extraction systems can be easy to operate and give good performance if some basic rules are followed. The following are a few critical check points that come to mind with this system, as with most of this type.

- 1. The nap acid must be allowed to phase separate out to reduce levels of nap acid and phenols that the brine contains, once it is sprung out. Carry-over of nap acids into the brine will spend the solvent after one use. This will require solvent regeneration after each extraction. While this does not really cost us much in money, it will add time to our processing. If we produce brine with greater than 3000 ppm phenolics we may only obtain one extraction before solvent regeneration is necessary. If phenolics are high, we can always perform the standard two extractions and add trichlor to the final extracted brine, like we would bleach.
- 2. The mixing steps at each point are critical. Extractions are based upon contact of molecules. We need good mixing for adequate time that will allow the extraction of the brine and then extraction of the solvent to perform properly. The 1:1 solvent to brine ratios are designed to reduce the phenolics to the levels as indicated in this report. Other mixture ratios will alter the efficiency of the system. Too much brine will reduce the extraction steps from two to just one. The system will still work, but will involve more time for solvent regeneration, as addressed above.
- 3. We must allow time for the extraction mixtures of 10% caustic and solvent to phase separate. We cannot afford to lose solvent into the caustic or even brine (as mentioned above) by not allowing the tank to phase out completely. If we are careful with this process, we can use the same solvents almost indefinitely, as the components are essentially non water soluble. In the laboratory this separation takes less than one minute, but it will take longer in a process unit. With some simple testing the time necessary for the phase separation may be determined.
- 4. We must watch the interface between the two mixtures when they are pumped off. We cannot afford to lose solvent out of the system with each extraction. We must have in place a way to insure that this will not happen.
- 5. We need to have a better method in place to quantitate the phenolics by the colorimetric method. Our current visual method of distinguishing between colors can be difficult, especially if the color of your sample is not the same hue as the standard. A Spec 20 can "read" the sample a produce a number value, but its cost is around \$2000, including necessary reagents. It takes a day or two to set up the standardization and all reagents, but once set up it is ready to go at anytime. Dilutions in the lab will need to be made to quantitate the 200-400 ppm phenolics, and there will be a large difference in a 300 vs. 400 ppm. We must watch and be careful with our laboratory techniques.



6. We must not contaminate our extraction solvent with any other organics. The extraction efficiency is based upon HAN and DIBK and no other solvents. The ratios of solvent to brine are based upon our current nap acid brine produced. These ratios are not applicable to running phenolic caustic brine or any other brine or waste water.

Summary

An efficient solvent extraction system will allow PACES to produce a waste water stream that is non-hazardous. It will eliminate our current practice of the one-time use of bleach and save money in the long run. When properly set up it should run with minimal issues and produce brine solutions that can be moved to System 1 without issues. Combined with the uses of trichlor this type of brine water could potentially be processed at CES.

Solvent Summary						
	HAN	DIBK				
Density	0.996	0.807				
Flash Point, deg F	typically 150 - 219	120				
solubility in water	negligible	0.04%				
CAS Number	64742-94-5	108-83-8%				
ratio for 1:1 solvent extraction	10 parts	1 part				

Cresylic Acid Isomer Distribution Summary for Total						
::::::::::::::::::::::::::::::::::::::	Nap Acid Brine Neat Sample	Nap Acid	Extracted Brine			
!						
Phenol	14.9	5.7	32.4			
o-Cresol	21.1	19.7	11.7			
2,6-xylenol	1.2	1.9				
m-Cresol	17.6	15.8	17.7			
p-Cresol	10.7	10.7	13.7			
OEP	1.6	2.0	2.8			
2,4-xylenol	5.0	8.1	2.7			
2,5-xylenol	3.5	5.6	1.9			
PEP	2.5	3.8	7.8			
2,3-xylenol	1.3	2.5	2.6			
MEP	8.5	9.0	1.8			
3,4-xylenol	÷ 5.8	<i>,</i> 4.7	2.2			
3,5-xylenol	6.5	10.7	2.7			
Total Cresols	49.4	46.1	43.2			
Totals	100.0	100.0	100.0			

melisa:

I will appreciate it if you would place please deliver them to Suzi.

Thanks Robbin

These are PACES inbound profile folders.





U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

	<u>Information</u>	4 1	N 11	"Эi ,	1	1 1	1	
Company: Plymov	th Engineera	d Shapes	formally	1 lymout	h Extru	led.	2449E	<u> </u>
Address: 201 C	ommerce Co	00~T 1					y	_
City: Hopkins	ville	State:	<u> </u>	_Zip: _	42240			
Contact: Keith	Galyon		Title:	MANT E	NSIWEEL			
Phone Number:	270-886-663	1 x 230	Fax Number:	270-885	5-7034			
24/hr Phone Number:	888-741-642	5 EMA	<u>. </u>					
US EPA ID No:	KYD0842704	161			-			
State ID No:			SIC Code:					
SECTION 2: Billing Inf		ame as Above			•			
Company: EMA		4						
Address: 10627	Midwest IN	dustrial B	lvd.			_		
City: St. Louis		State:	MO	Zip:	63132			
Contact: MANA	Tunbare 110		Title:	Office M	195			
Phone Number:	314-785-64	25	Fax Number:	314-785	4-6426			
		Ą						
SECTION 3: General D	escription of the W	<u>aste</u>	e eg					
	21 111		// .	1. I	41	3		
Name of Waste:	Sodium Hydi	roxide Sol	WHOW HI	KAliNZ	Cleanier			
Detailed Description of		g Waste:						
Cleaning tou	removal of	Draw lub	e from	metal f	products			
				•				
		_	_					
Physical State:	Liquid	Sludge		Powder				
	Solid	Filter Cal	ke 📋	Combinatio	n			
5 1								
				<i>[</i> '' 4				
Color: Dark			Odor:	Coustic				
	-a). Q (~~~	Odor:					
Specific Gravity (water	=1): 9.	27	Odor:	Cirusha Density:	lbs/g	al		
Specific Gravity (water-			_	Density:		al		
			_	Density:		al		-
Specific Gravity (water	ain any total pheno	lic compounds?	Ye	Density:	lo	al		
Specific Gravity (water-	ain any total pheno	lic compounds?	Ye	Density:		al		
Specific Gravity (water-	ain any total pheno ain any para substi	lic compounds?	Ye	Density: _	lo Yes 🔀 No		**	
Specific Gravity (water- Does this material cont Does this material cont Is the Waste subject to	ain any total pheno ain any para substi the benzene waste	lic compounds? tuted phenolic c operation NESH	Yeompounds?	Density: _	lo yes ⊠ No art FF) □	al Yes	X N	 D
Specific Gravity (water- Does this material cont Does this material cont Is the Waste subject to Answer "Yes" if your was	ain any total pheno ain any para substi the benzene waste te contains benzene	lic compounds? tuted phenolic c operation NESH AND if the SIC c	Yeompounds? IAP? (40 CFR Pade from your face)	Density:es	lo /es ∑ No art FF) □ i the following:	Yes	, ,	
Specific Gravity (water- Does this material cont Does this material cont Is the Waste subject to Answer "Yes" if your was 2812 2813	ain any total pheno ain any para substithe benzene waste te contains benzene 2816	lic compounds? tuted phenolic c operation NESH AND if the SIC c 2819 282	Yeompounds? IAP? (40 CFR Prode from your farm 2822	Density:es	lo (es No art FF) □ the following: 2824	Yes 2833	283	4
Specific Gravity (water- Does this material cont Does this material cont Is the Waste subject to Answer "Yes" if your was 2812 2813 2835 2836	ain any total pheno ain any para substitute benzene waste te contains benzene 2816 2841	tuted phenolic coperation NESHAND if the SIC co	Ompounds? IAP? (40 CFR Prode from your farous) 2822 2844	Density:es	lo (es No art FF) □ the following: 2824 2861	Yes 2833 2865	283 286	4
Specific Gravity (water- Does this material cont Does this material cont Is the Waste subject to Answer "Yes" if your was 2812 2813 2835 2836 2873 2874	ain any total pheno ain any para substitute benzene waste te contains benzene 2816 2841 2876	tuted phenolic coperation NESHAND if the SIC co 2819 282 2842 2843 2879 289	Ompounds? IAP? (40 CFR Prode from your farous 2822 2844	Density:es	lo (es No art FF) □ the following: 2824	Yes 2833	283	4
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Specific Gravity (water- Does this material cont Does this material cont Is the Waste subject to Answer "Yes" if your was 2812 2813 2835 2836 2873 2874 3312 4953	ain any total pheno ain any para substitute benzene waste te contains benzene 2816 2841 2876 4959	tuted phenolic coperation NESHAND if the SIC co 2819 282 2842 2843 2879 289 9511	Ompounds? IAP? (40 CFR Prode from your farous 2822 2844	Density:es	lo (es No art FF) □ the following: 2824 2861	Yes 2833 2865	283 286	4
Specific Gravity (water- Does this material cont Does this material cont Is the Waste subject to Answer "Yes" if your was 2812 2813 2835 2836 2873 2874 3312 4953	ain any total pheno ain any para substitute benzene waste te contains benzene 2816 2841 2876	tuted phenolic coperation NESHAND if the SIC co 2819 282 2842 2843 2879 289	Ompounds? IAP? (40 CFR Prode from your farous 2822 2844	Density:es	lo (es No art FF) □ the following: 2824 2861	Yes 2833 2865	283 286	4
Specific Gravity (water- Does this material cont Does this material cont Is the Waste subject to Answer "Yes" if your was 2812 2813 2835 2836 2873 2874 3312 4953 Layers: Sir	ain any total pheno ain any para substitute benzene waste te contains benzene 2816 2841 2876 4959 ngle-phase	tuted phenolic coperation NESHAND if the SIC coefficient 2819 282 2842 2842 2879 289 9511 Multi-phase	ompounds? IAP? (40 CFR Prode from your fail 2822) 3 2844 1 2892	Density:es	lo (es No art FF) □ the following: 2824 2861	Yes 2833 2865	283 286	4
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If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto						
If "Yes", Is it: □ D001 (Ignitable) □ D002 (Corrosive) □ D003 (Reactive) Characteristic for Toxic Metals: □ D004 □ D005 □ D006 □ D007 □ D008 □ D009 □ D010 □ D011						
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)						
Is this an "F" or "K" Listed waste or mixed if "Yes", then please list ALL applicable of		☐ Ye	s X No			
Is this a commercial product or spill cleanu 40 CFR 261.33(e) or (f)?	Yes 🗶	rry a "U" or "P' No	' waste code under			
Texas State Waste Code Number:						
Proper US DOT Shipping Name: Sodi		.de Soli	けらん RQ:			
Flash Point pH	Reacti	ve Sulfides	Reactive Cyanides	Solids		
7200 >12.5		O mg/l	Ø mg/l	() %		
Oil & Grease TOC		Zinc	Copper	Nickel		
0 <u>mg/l</u> 0 <u>m</u>	<u>g/l</u>	O mg/l	O mg/l	<u> ⊘ mg/l</u>		
SECTION 4: Physical and Chemical Data COMPONENTS TABLE The waste consists of the following n Water Section Hydroxide See Attrached Analysis (1	naterials พร่อร์)	90	CONCENTRATOIN Ranges are acceptable - 30 - 20	UNITS or %		
SECTION 5: Safety Related Data If the handling of this waste requires the use of	f special protectiv	e equipment, ple	ease explain.			

SECTION	6: Attached	Supporting De	ocuments			···		
List all doc	List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. <u> </u>							
,,	J	7	1					
					·			
					······································			
	7: Incompati ALL incompat	ibilities tibilities (if any)	:					
Laboratory	analysis of th		Documentation aste characteristi wledge:		WAS NOT F	PERFORME	D	
TCLP Meta						·		
								
TCLP Sem	i-volatiles:							
Reactivity:								
Corrosivity:								
Ignitability:								
SECTION 9 Treatment I		ipt Classification	on Under 40 CFR	437 (Prtaining to	Pre-Treatme	nt Requirem	ents for Centraliz	ed Waste
	Is this materi	ial a wastewater complete this se	or wastewater sludection.	lge?		☐ YES	□ NO	
* * * *	PLEASE CH	ECK THE APPR	ROPRIATE BOX. I	F NO APPROPR	IATE CATEG	ORY, GO TO	THE NEXT PAGE	
Metals Sub	category: Sur	bpart A						
		plating baths an	d/or sludges					
		ig rinse water an						
	Chromate wa	stes	-					
	Air pollution of	control blow dow	n water and sludge	es				
	Spent anodiz	ing solutions						
	Incineration v							
<u>_</u>	Waste liquid							
<u> </u>			reater than 136 mg	y/ }				
Ļ			or without metals					
<u> </u>	Cleaning, rins	sing, and surface	e preparation soluti	ons from electrop	plating or phos	phating oper	ations	
<u> </u>		ourring wastewat			_4			
<u>(</u>	Aikaline and a	acia solutions us	sed to clean metal	parts or equipmer	nt .			
Oils Subcat	<u>'egory</u> : Subpa	art B						
	Used oils							
F		ulsions or mixtur	es					
ī	Lubricants							
	Coolants							
		d groundwater c	ean-up from petrol	eum sources				
	Used petroleu		• •					
	Oil spill clean	-up						
	Bilge water							
	Rinse/wash w	vaters from petro	leum sources					

☐ Interceptor wastes ☐ Off-specification fuels ☐ Underground storage remediation waste ☐ Tank clean-out from petroleum or oily sources ☐ Non-contact used glycols ☐ Aqueous and oil mixtures from parts cleaning operations ☐ Wastewater from oil bearing paint washes
Organics Subcategory: Subpart C □ Landfill leachate □ Contaminated groundwater clean-up from non-petroleum sources □ Solvent-bearing wastes □ Off-specification organic product □ Still bottoms □ Byproduct waste glycol □ Wastewater from paint washes □ Wastewater from adhesives and/or epoxies formulation □ Wastewater from organic chemical product operations □ Tank clean-out from organic, non-petroleum sources
(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory. Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L
(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, coppe or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
SECTION 10 Additional Instructions
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11: Generator's Certification The information contained herein is based on I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.
Authorized Signature: Authorized Signature: Date: 4-14-09
Printed Name/Title: Keith E Control
CES USE ONLY (DO NOT WRITE IN THIS SPACE)
Compliance Officer: Date:

MATERIAL SAFETY DATA SHEET

NO. 499

Revised: March 01, 2006

Product Name: <u>USED, SODIUM HYDROXIDE, Hopkinsville, KY</u>

PLYMOUTH EXTRUDED SHAPES

201 Commerce Court Hopkinsville, KY 42240

USA

Emergency Phone: (270) 348-4830

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical Formula: Sodium hydroxide
Other Designations: Caustic soda (Caustic)
Product Use: Processing to resell caustic soda
Manufacturer: Plymouth Extruded Shapes, KY
USA Phones: Health & Safety: (270) 348-4830

2. COMPOSITION/INFORMATION ON INGREDIENTS

				Exposure L	mits (TWA in mg/m³)
Components	CAS No.	% by Weight	Form	ACGIH TLV	OSHA PEL
Sodium hydroxide	1310-73-2	10-20%			
Water		80-90%			
Trace Metals					
Chromium Lead	·	2.36 mg/l 0.691 mg/l			

cmpds = compounds

3. HAZARDS INFORMATION

EMERGENCY OVERVIEW

Liquid, gray-white color. Odorless. Non-combustible. CORROSIVE.

Can cause severe irritation, corrosive burns, and permanent damage to eyes, skin, respiratory tract and gastrointestinal tract.

Potential Health Effects

EYES: Direct contact can cause severe irritation, corrosive burns, and permanent damage including blindness.

SKIN: Direct contact can cause severe irritation, burns and damage to skin.

INHALATION: Can cause respiratory tract irritation, lung damage and other health effects listed below. Cancer and reproductive hazard.

INGESTION: Can cause irritation and damage to the gastrointestinal tract if swallowed.

This material can cause corrosive burns to eyes or skin on contact due to its alkalinity. It is destructive to all contacted human tissue and gives severe burns. Eye contact will produce severe or permanent injury including blindness. Inhalation of mist or spray can cause irritation or injury to the upper respiratory tract. Chronic exposure to liquid mist can cause irritation or damage to the respiratory tract tissues.

Sodium hydroxide can cause severe irritation/corrosive burns to the eyes, skin, mucous membranes, and respiratory system.

Medical conditions aggravated by exposure to the product:

Asthma, chronic lung disease, and skin rashes.

*IARC CLASSIFICATIONS:

Group 1: The agent is carcinogenic to humans.

There is sufficient evidence that a causal relationship existed between exposure to the agent and human cancer.

Group 2B: The agent is possibly carcinogenic to humans.

Generally includes agents for which there is limited evidence in humans in the absence of sufficient

evidence in

experimental animals.

4. FIRST AID MEASURES

EYES: Wash eyes <u>immediately</u> with plenty of running water for at least 15 minutes including under the eyelids and all surfaces. Speed in rinsing eyes after contact is extremely important if permanent injury is to be avoided. Obtain emergency medical care.

SKIN: Wash contact area promptly with large quantities of water. Remove contaminated clothing under the shower. Prolong washing in serious cases until medical help arrives, even for an hour or longer.

INGESTION: Do not give anything by mouth to an unconscious person. Immediately dilute chemical by drinking water or milk, up to 30 mL in children and 250 mL in adults. Do not neutralize with dilute vinegar, fruit juice or other acidic agents. Vomiting may occur spontaneously, but do not induce it. Contact a physician immediately.

INHALATION: Remove to fresh air. Check for clear airway, breathing, and presence of pulse. Provide CPR for persons without pulse or respirations. Consult a physician immediately.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Sodium hydroxide solution is non-combustible. Sodium hydroxide will react vigorously with metals such as aluminum, tin, and zinc to generate flammable and explosive hydrogen gas.

EXTINGUISHING MEDIA: Use fire extinguishing agent suitable for surrounding fire. Use water spray to cool containers of this material which are involved in a fire situation. However, take care not to splash this caustic solution.

FIRE FIGHTING INSTRUCTIONS: Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

6. ACCIDENTAL RELEASE MEASURES

SMALL/LARGE SPILL: Contact environmental control personnel. Plan ahead for handling spills. Personnel working on cleanup must use protective clothing/equipment to prevent body contact

with the liquid and be properly trained as required by OSHA regulations. Abundant running water should be available for emergency use. Pick up spill with vacuum equipment (alkali resistant) for disposal or flush to holding area with water. Neutralize residues with dilute acid and rinse with water.

7. HANDLING AND STORAGE

HANDLING: Avoid handling conditions that may lead to spills or to mist formation. Do not permit workers to handle this material without proper training or without proper equipment. STORAGE: Store in well-sealed containers which are protected from physical damage. Have abundant running water available where stored, unloaded, or handled. Drains must have retention basin for pH adjustment and neutralization of spilled materials and flushings before discharge.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use with adequate ventilation to meet the limits listed in Section 2. RESPIRATORY PROTECTION: Use NIOSH-approved respiratory protection (mist respirator, high efficiency dust respirator for lead) as specified by an Industrial Hygienist or other qualified professional if concentrations exceed the limits listed in Section 2.

SKIN PROTECTION: Wear chemical resistant gloves and other appropriate protective clothing to prevent skin contact.

EYE PROTECTION: Wear chemical splash goggles or face shield to prevent eye contact.

Sampling to establish **lead** level exposure is advised where exposure to airborne particulate or fumes is possible. Consult OSHA Lead Standard 29 CFR 1910.1025 for specific health/industrial hygiene precautions and requirements to follow when handling lead compounds

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Liquid (may contain precipitated inorganic salts); gray-white color

BOILING TEMPERÁTURE: 288-298°F (for 50% NaOH) FREEZE-MELT TEMPERATURE: Not determined

VAPOR PRESSURE: <1.0 mmHg EVAPORATION RATE: Not applicable

SPECIFIC GRAVITY: 1.2-1.3
DENSITY: See Specific Gravity
WATER SOLUBILITY: ~100%

PH: ≥ 12.5 ODOR: None

ODOR THRESHOLD (ppm): Not determined.

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not determined

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions in a sealed container. Do not store in magnesium, tin, chromium, aluminum, and zinc, and brass, bronze or galvanized containers.

REACTIVITY: This material will react with carbon dioxide in the air (when exposed) to form sodium carbonate. It will react violently with acids and with many organic chemicals, especially nitrocarbons and halocarbons. (Trichloroethylene will react with sodium hydroxide to form spontaneously flammable dichloroacetylene)

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

LD₅₀ or LC₅₀ for oral, dermal or inhalation routes of administration: No information found.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL/CHEMICAL FATE INFORMATION: No information found.

13. DISPOSAL CONSIDERATION

Material may be neutralized on-site with necessary permits and precautions or off-site by a reputable waste treatment company.

RCRA Hazardous Waste No.: D002 due to the high ph

14. TRANSPORT INFORMATION

U.S.A. DOT: Sodium Hydroxide Solution, 8, UN1824, II, RQ, Note: For packages less than 4,165 lb., delete "RQ" reference. Canadian TDG Hazard Class & PIN: 8, UN1824

15. REGULATORY INFORMATION

U.S. Federal Regulations

TSCA STATUS: All components of this product are listed on the TSCA inventory. CERCLA HAZARDOUS SUBSTANCES: Chromium, Sodium hydroxide. SARA TITLE III

Section 311/312 Physical and Health Hazard Categories: Immediate (acute), Delayed (chronic).

Section 313 Toxic Chemicals: Chromium

In reference to Title VI of the Clean Air Act of 1990, this material does not contain nor was it manufactured using ozone-depleting chemicals.

State Regulations

PENNSYLVANIA "Special Hazardous Substance"

International Regulations

CANADIAN DOMESTIC SUBSTANCES LIST: All components of this product are listed on the Canadian DSL.

EUROPEAN COMMUNITY: All components of this product are listed on ECOIN, the European Core Inventory.

JAPAN: All components of this product are listed on MITI, the Ministry of International Trade Industry.

AUSTRALIA: All components of this product are listed on the AICS inventory.

16. OTHER INFORMATION

MSDS STATUS: New format.

PREPARED BY: Hazardous Materials Control Committee.

MSDS System Number: 145285

- <u>Guide to Occupational Exposure Values-1997</u>, Compiled by the American Conference of Governmental Industrial Hygienists (ACGIH).
- <u>Documentation of the Threshold Limit Values and Biological Exposure Indices</u>, Sixth Edition, 1991, Compiled by the American Conference of Governmental Industrial Hygienists, Inc. (ACGIH).
- NIOSH Pocket Guide to Chemical Hazards, U.S. Department of Health and Human Services, June 1994.
- <u>Dangerous Properties of Industrial Materials</u>, Sax, N. Irving, Van Nostrand Reinhold Co., Inc., 1984.
- <u>Patty's Industrial Hygiene and Toxicology</u>: Volume II: Toxicology, 4th ed., 1994, Patty, F. A.;
 edited by Clayton, G. D. and Clayton, F. E.: New York: John Wiley & Sons, Inc.

INFORMATION HEREIN IS GIVEN IN GOOD FAITH AS AUTHORITATIVE AND VALID; HOWEVER, NO WARRANTY, EXPRESS OR IMPLIED, CAN BE MADE.

LEGEND:			
ACGIH	American Conference of Governmental Industrial Hygienists	atm	atmosphere
AICS	Australian Inventory of Chemical Substances	cm	centimeter
CAS	Chemical Abstract Services		gram
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	in	inch
CFR	Code of Federal Regulations	kg	kilogram
CPR	Cardiopulmonary Resuscitation	lb	pound
DOT	Department of Transportation	m	meter
DSL	Domestic Substances List (Canada)	mg	milligram
ECOIN	European Core Inventory	ml. ML	milliliter
EPA	Environmental Protection Agency	mm	millimeter
IARC	International Agency for Research on Cancer	n.o.s.	not
otherwise :			
LC50	Lethal concentration (50 percent kili)	ppb	parts per
billion			
LC _{Lo}	Lowest published lethal concentration	ppm	parts per
million			
LD ₅₀	Lethal dose (50 percent kill)	psia	pounds per
square incl			
LDLo	Lowest published lethal dose	μ, u	micron
NFPA	National Fire Protection Association	μ g	microgram
NIOSH	National Institute for Occupational Safety and Health		
NTP	National Toxicology Program		
OEL	Occupational Exposure Limit		
OSHA	Occupational Safety and Health Administration		
PEL	Permissible Exposure Limit		
PIN	Product Identification Number		
RCRA	Resource Conservation and Recovery Act	•	
SARA	Superfund Amendments and Reauthorization Act		
STEL	Short Term Exposure Limit		
TCLP	Toxic Chemicals Leachate Program		
TDG	Transportation of Dangerous Goods		
TLV	Threshold Limit Value		
TSCA	Toxic Substances Control Act		
TWA	Time Weighted Average		

SECTION 17

DISCLOSURE STATEMENT

The information presented in this Material Safety Data Sheet is subject to additions and revisions and is not all-inclusive, but represented as the best information available to date. This information was drawn from recognized sources believed to be reliable. However, Plymouth Extruded Shapes, and/or the preparer of this data sheet will not be responsible for damages of any kind resulting form the use of or reliance upon such information.

The product discussed is sold without warranty, expressed or implied and upon conditions that purchasers shall perform their own verification and testing to determine its suitability for a particular purpose.

McCoy && McCoy Laboratories, Inc. P. O. Box

Madisonville, KY www.mccoylabs.com

Plymouth Extruded Shapes Attn: Greg Studer 201 Commerce Court Hopkinsville KY 42240 Lexington KY 859-299-7775 Madisonville KY 270-821-7375 Paducah KY 270-444-6547 Pikeville KY 606-432-3104

D.Wolfe@mccoylabs.com

Batch #: 06022333 Received: 02/28/2006 Reported: 03/13/2006

03/13/2006

Client: PL8500 Page: 1 of 1

Analysis

AE36041 Alkaline Collected: 2/28/2006

						Report	,	
Test Description	Analyzed	Ву	Method	Result	Units		MCL Note	
Extraction TCLP Filtration	03/02/2006	KET	EPA 1311	3/2/06				
Arsenic - Solid Waste/Liquid - TCLP	03/07/2006	FAM	SW 6020	0.028	mg/l	0.002	5.0	
Barium -Solid Waste/Liquid - TCLP	03/07/2006	FAM	SW 6020	0.432	mg/l	0.002	100.	
Cadmium - Solid Waste/Liquid - TCLP	03/07/2006	FAM	SW 6020	0.002 U	mg/l	0.002	1.0	
Chromium - Solid Waste/Liquid - TCLP	03/07/2006	FAM	SW 6020	2.36	mg/l	0.002	5.0	
Lead - Solid Waste/Liquid - TCLP	03/07/2006	FAM	SW 6020	0.691	mg/l	0.002	5.0	
Mercury- Solid Waste/Liquid - TCLP	03/07/2006	FAM	SW 6020	0.0002 U	mg/l	0.0002	0.2	
Selenium - Solid Waste/Liquid - TCLP	03/07/2006	FAM	SW 6020	0.01	mg/l	0.002	1.0	
Silver - Solid Waste/Liquid - TCLP	03/07/2006	FAM	SW 6020	0.002 U	mg/l	0.002	5.0	

Submitted By:

Doug Wolfe, Director of Laboratory Services

The analyses reported above have been determined by protocols that meet or exceed the requirements of NELAC. Methods listed with an "*" are not part of this accreditation. Call Doug Wolfe at 270-821-7375 for any questions concerning this analysis report.



ERNIE FLETCHER GOVERNOR

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
HAZARDOUS WASTE BRANCH
14 REILLY ROAD
FRANKFORT, KENTUCKY 40601
www.kchtucky.gov

LAJUANA S. WILCHER SECRETARY

April 21, 2006

Timothy J Hylla, Vice President Environmental Management Alternatives (EMA) 10627 Midwest Industrial Blvd. St. Louis, MO 63132

RE.

Regulatory Interpretation of Spent Sodium Hydroxide Solution as an Effective Substitute for a Commercial Chemical Product

Plymouth Extruded Shapes

Hopkinsville, Christian County, Kentucky

EPA ID#: KYD-084-270-461

AI: 787

Dear Mr. Hylla:

The Kentucky Division of Waste Management (Division) received your request for interpretation of 401 KAR 31:010 Section 2(5) for reuse and/or recycling of spent sodium hydroxide solution on April 8, 2006 and additional supportive information on April 19, 2006 as an effective commercial chemical product. A commercial chemical product is defined at 401 KAR 31:010 Section 2(5)(a)2 as "Materials are not waste when they can be shown to be recycled by being used or reused as effective substitute(s) for the commercial products."

The Division understands that the sodium hydroxide waste is generated by taking a carbon or stainless shape up to 3" wide and 20' long and pulling (cold drawing) it through a die to actually change the shape. A lubricant is used to lubricate the piece as it passes through the die. Once the draw is complete, the product is dipped into the sodium hydroxide for cleaning purposes. Plymouth Extruded Shapes annually generates around 4,000 gallons of the waste. Plymouth Extruded Shapes plans to sent the sodium hydroxide waste to Arkla Disposal Services (Wastewater Processing Plant) in Shreveport, LA where will be use as feedstock for the wastewater plant.

Based on the information provided, we agree that the sodium hydroxide can be used as effective substitute for the commercial product of sodium hydroxide and, therefore, this sodium hydroxide is not considered a waste when used as a commercial chemical product and is not subject to the hazardous waste regulations. We understand that the reuse process will take

Kentucky

KentuckyUnbridledSpirit.com

An Equal Opportunity Employer M/F/D

Timothy J Hylla EMA / Plymouth Extruded Shapes April 21, 2006 Page 2 of 3

place in an agreement between Plymouth Extruded Shapes and Arkla Disposal Services which actually will reuse the sodium hydroxide material. Because the material is considered a product, no manifest will be required. However, the reuse of material is regulated and limited under the 401 KAR 31:010 Table 2 and 401 KAR 31:010 Section 2(3)(d).

If this material is accumulated on-site for too long, it becomes a solid waste pursuant to the speculative accumulation provisions. Specifically, the regulations state that a material is not accumulated speculatively if: 1) the material is potentially recyclable; 2) there are feasible means of recycling the material; and 3) 75% by weight or volume of the amount of the material accumulated at the beginning of the calendar year (January 1) is either recycled or transferred to a different site for recycling during the calendar year. If 75% of the material is not recycled in the specified time frame, the material becomes a solid waste on January 1 of the following year.

Therefore, based on above provisions and interpretations, Plymouth Extruded Shapes must be able to demonstrate that:

- The sodium hydroxide is being used as cited above, and not merely capable of such
 use. (We suggest keeping documentation to support the claim that the sodium
 hydroxide is being used in a manner that is within the scope of this exclusion).
- 75% of the sodium hydroxide is being recycled under the one-year calendar provisions.

The approval determination of this Division stands as long as:

- The process is handled as proposed, in accordance with 401 KAR 31:010 Section 2(5)(a)2 for the material being recycled/reused as a commercial product.
- The sodium hydroxide is on-specification according to the Arkla Disposal Services requirements for the recycling process.
- It is used as an ingredient without prior treatment or reclamation process.

Plymouth Extruded Shapes should be aware that the event of the discontinuation of the recycling/reuse program agreement with Arkla Disposal Services or any similar program and/or off-specification, the sodium hydroxide will be considered a hazardous waste and therefore must be managed in accordance with RCRA regulations.

Also it will be required that a modification of Plymouth Extruded Shapes' hazardous waste activities registration form be made to remove sodium hydroxide as a waste stream.

Timothy J Hylla EMA / Plymouth Extruded Shapes April 21, 2006 Page 3 of 3

Should you have any questions, please contact Maridely M. Loyselle at (502) 564-6716, extension 220.

Sincerely,

for April J. Webb P.E., Manager Hazardous Waste Branch Division of Waste Management

The U. Jata

AJW/mml

c: Otis Johnson, EPA Region IV
John Jump, Hazardous Waste Branch
Maridely M. Loyselle, Hazardous Waste Branch
Jan Jasper, Hazardous Waste Branch
Malinda Mays, Hazardous Waste Branch
Diana Adams, Madisonville Regional Field Office
File Room – Main File
Reading File

Mr. Randy Hubbard Environmental Manager Plymouth Extruded Shapes 201 Commerce Court, Hopkinsville, KY 42240



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

When naphthenic caustic is acidified or sprung out to produce nap acid, phenolic compounds, which are weak acids, are also released or sprung out into the product. Depending upon the strength of the brine, the phenolic compounds migrate into the aqueous brine layer due to their solubility. The solubility of each of the separate cresylic isomers causes these compounds to distribute themselves in a fairly consistent isomer distribution in the brine that is produced. The strength of the brine helps to determine the actual concentration of the total cresylics present. Naphthenic caustics are typically weak caustic streams, allowing for fairly high concentrations of cresylics to be present in the brine that is produced from the springing step. Our nap acid brine typically contains from 2500 – 3000 ppm total phenolics.

Total cresols greater than 200 ppm in our waste water cause it to be classified as hazardous waste. Our current methodology of adding bleach to the water to reduce the phenolics is expensive and the bleach must be repurchased for each use. The goal of my work is to develop a system to eliminate the hazardous waste classification of our waste water while using a technology that is more cost effective than the continual use of bleach.

Cresylic Acids in Nap Acids Overview

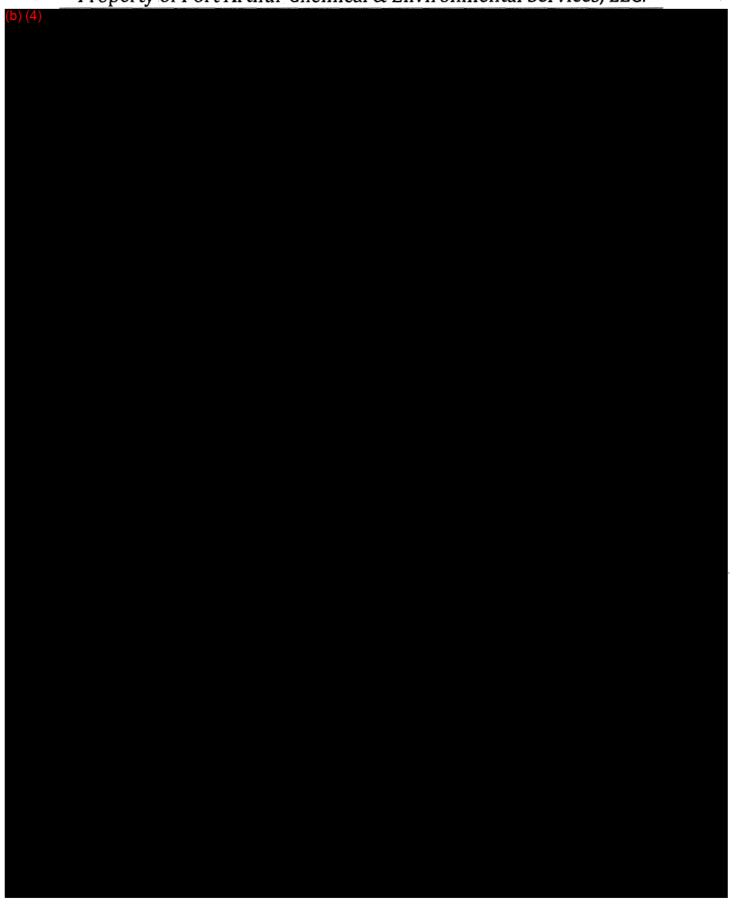
Samples of our naphthenic caustic were obtained from PACES for testing. Aliquots were acidified to spring out the nap acids and allowed to sit. This sitting time allows any entrained nap acids to come out of the brine solution, and will be a critical step in our processing. It is similar to letting the sprung nap acid sit to give the water time to phase separate. Not allowing the brine sufficient time to sit will mean extra organics will be extracted into the solvent, needlessly tying up the solvent with nap acids instead of cresylics, and spending the solvent quicker.

Cresylic isomer analysis to determine specific concentrations of cresols requires the use of gas chromatography and/or gas chromatography-mass spec (GCMS). CES does not have the technology to analyze for cresylic acid isomers and this specialty type of testing is not readily done by outside laboratories. Merisol, my former employer, has the technology to do such testing properly, as their business is cresylic acids.

The nap acid, brine and solvent extracted brine were all analyzed by GC for cresylic acids by a former co-worker in order to determine the types of cresylic acids present. On a sample of the Total nap acid it was determined that the cresols make up 49% of the cresylics in the brine, 43% of the cresylics in the solvent extracted brine and 46% in the nap acid. While these exact values will vary from batch to batch, our total cresols can be expected to range from 40 - 50% of the total cresylics present. The para cresol component was found to be 13.7% of the total cresylics in the extracted brine sample.

This data allows us to test for total phenolics and assume as a worst case scenario that the total cresols will not be greater than 50% of our colorimetric test method results. Since we use a colorimetric field test, it is advised that we use a more refined method of quantifying the phenolics at PACES. A Spec 20 is such an instrument and total cost for setting this up will run around \$2000, including the necessary reagents.

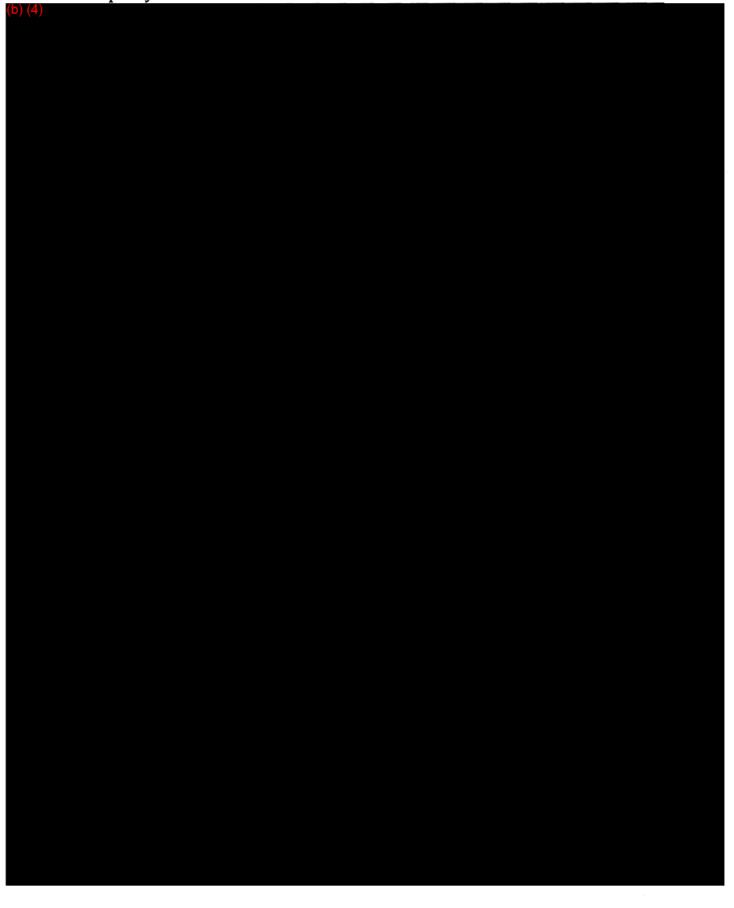
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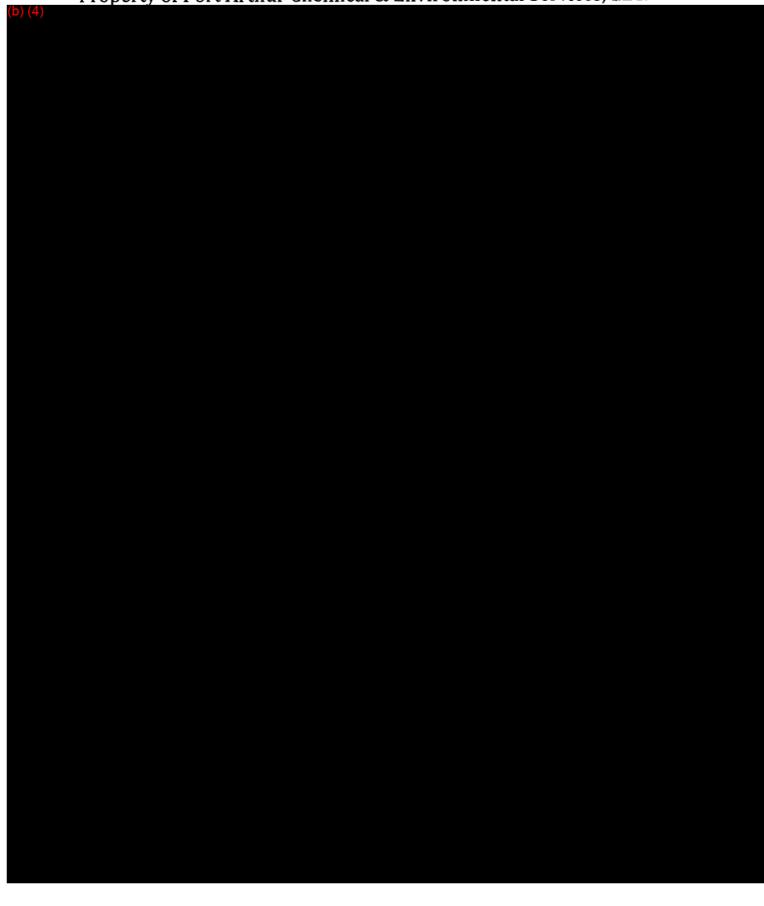
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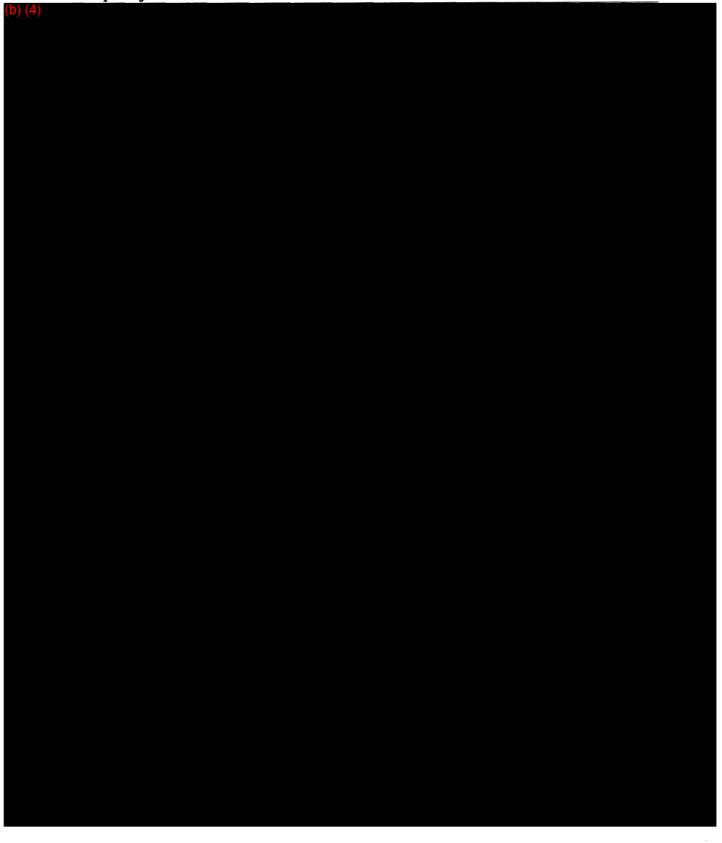
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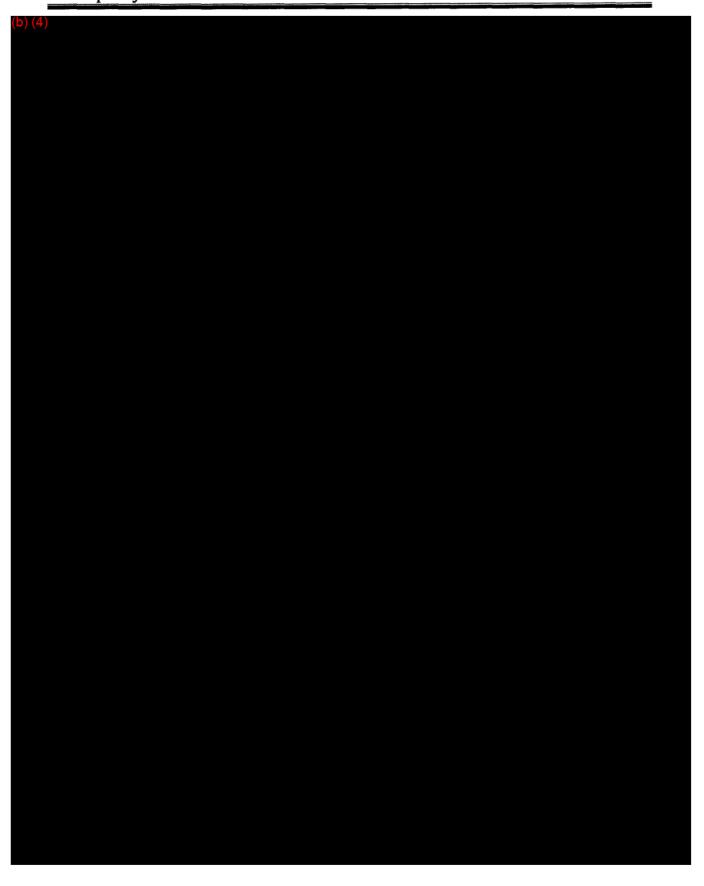
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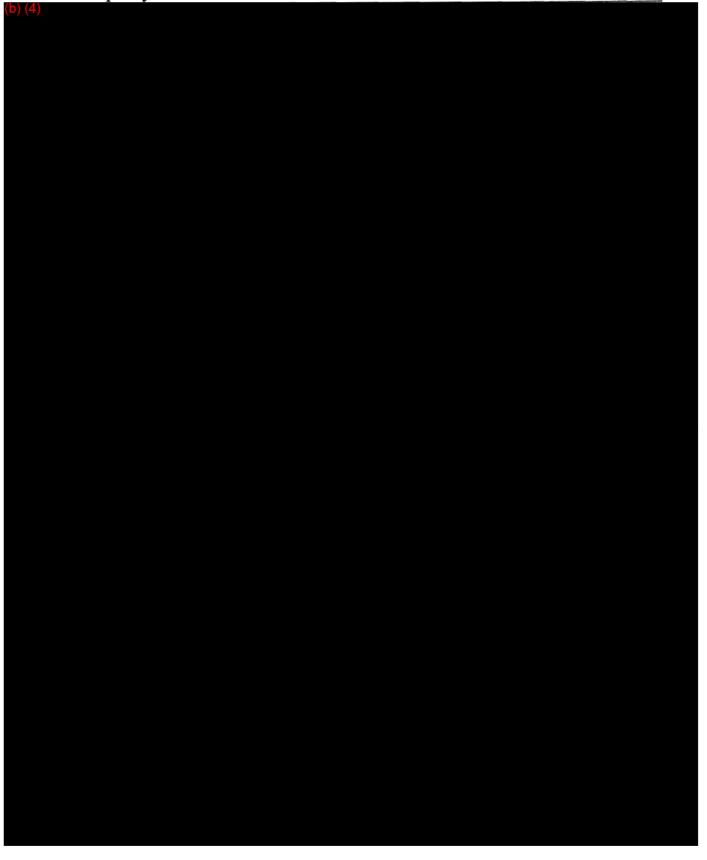
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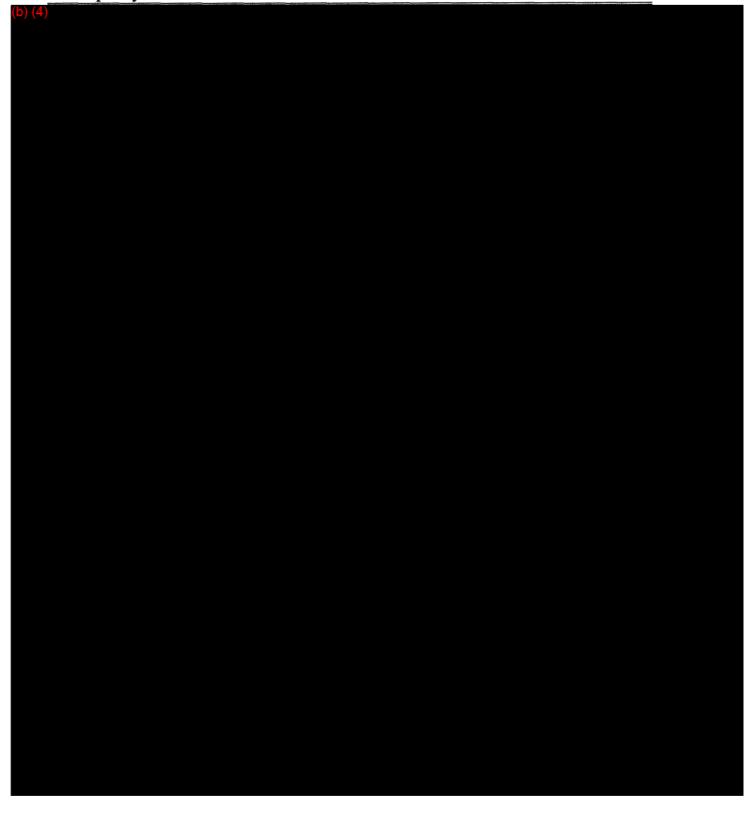
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*Sulfides-

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est one for drivers + our documents. Staple
Pto print out Ethird drivers Sheet. If
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*ABC TESTS (C-BXZ.3 X. 1 - Sample Size)

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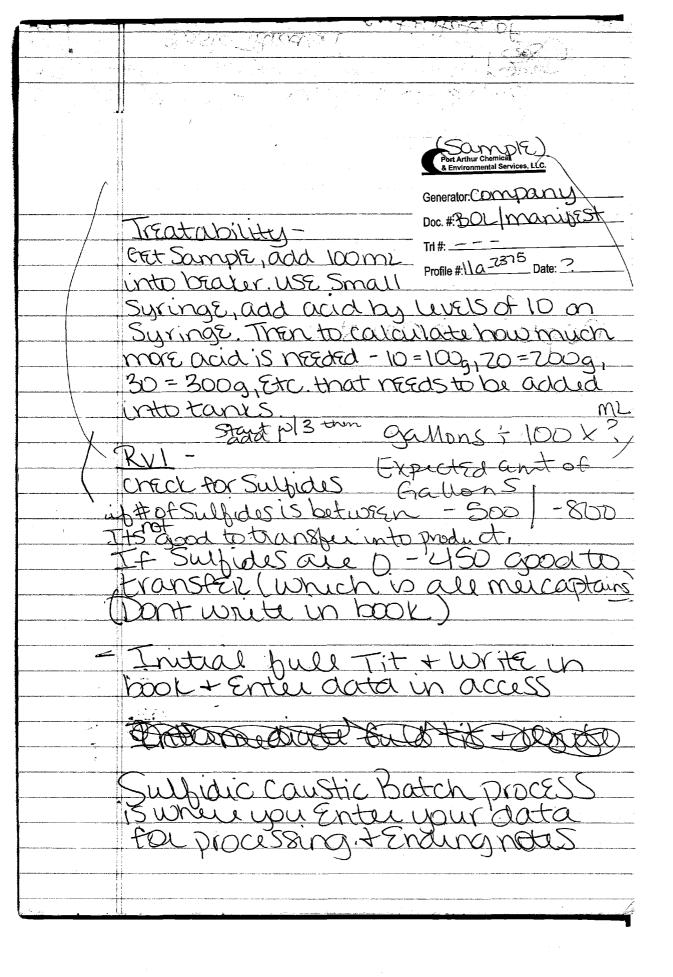
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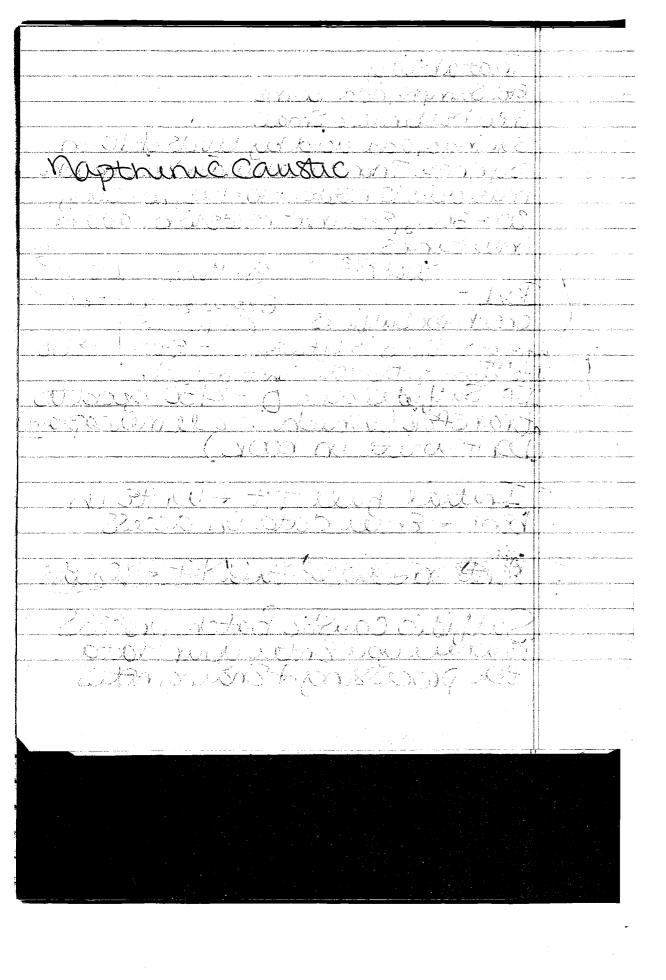
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PH-

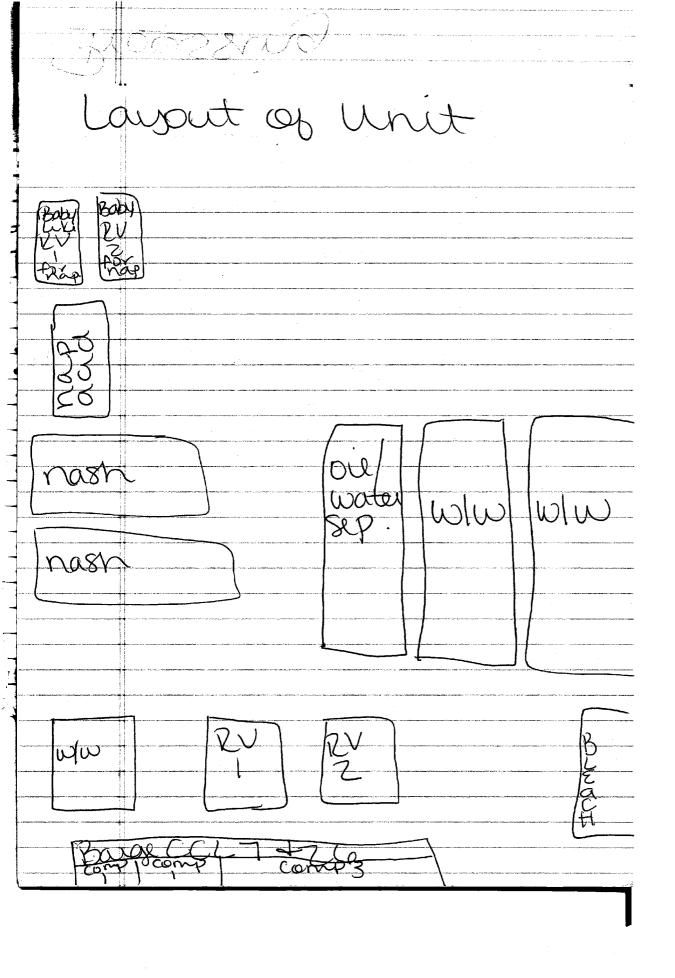
Take whole Sample bottle, test + document number on dotalog Sheet Everytime PH should always be 2.5 - 3 balance If over-Product reeds to be brought down

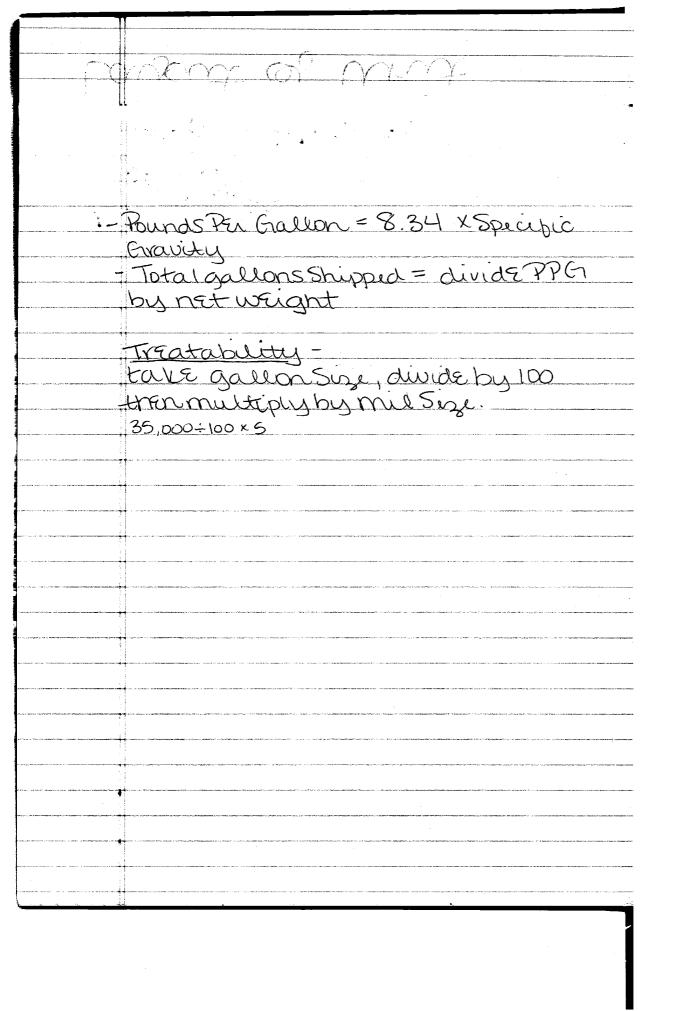




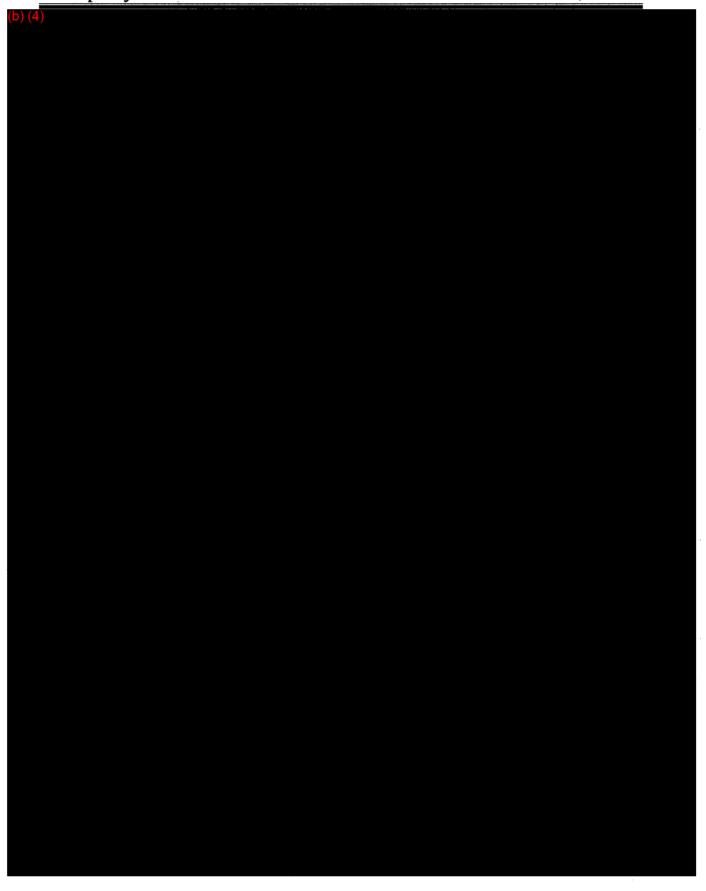
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1. October 16. William (16. M) and the observe of the second	
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acid to	be injected into tanks. When
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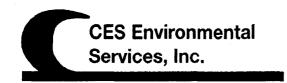


Melisa:

These are A PACES inbound Profiles.

Thanks

Prahhm



Waste Pre-Acceptance/Approval Letter

Date 6/3/2009

Dear Kenneth Guest

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3355

Expiration Date 6/2/2011

Generator: Entergy Texas - Lewis Creek Plant

Address: 1191 Longstreet Road

Willis, TX 77318

Waste Information

Name of Waste: Sulfuric Acid
TCEQ Waste Code #: PRODUCT

Container Type:

Detailed Description of Process Generating Waste:

Color: brown

Odor: acidic or odorless

pH: <1

Physical State: Incompatibilities:

Safety Related Data/Special Handling:

LEVEL C

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

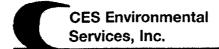
Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road, Houston, TX 77021

Phone: (713) 676-1460



Fax: (713) 676-1676

CES Environmental Services – Port Arthur Facility 2420 S. Gulfway Drive, Port Arthur, TX 77641 Phone: (713) 676-1460 Fax: (713) 676-1676

	olid Waste Permit No: 30948 XD008950461 ISWR No: 30900	U.S. EPA ID	O No: TXR000079307 ISWR No: 88585
Company: Address:	rial Producer Information Entergy Texas - Lewis Co 11191 Langstreet Road Willis TX 77318	reek Plan	~ †
City, State, Zip: Contact: Phone No:	Willis TX 77318 Gin Edwards 936-856-0617	Title: Fax No:	Chamista / Envisonmental facialist 936-856 - 0644
24/hr Phone: U.S. EPA I.D. No: State I.D.	136-203-0028 TXD054447438 31055	SIC Code:	NA.
Company:	g Information – X Same as Above	,	
Address: City, State, Zip:			
Contact:	Title:		
Phone No:	Fax No:		
SECTION 3: Gener	ral Description of the Material / Product		en en en en en en en en en en en en en e
Name of Material / I Detailed Description	Product: SURNC ACIO of Process Generating or Producing the Mater	ial / Product:	:
Physical State:	☑ Liquid☐ Sludge☐ Solid☐ Filter Cake	Powder Combinati	ion
Color: BROWN	Odor: Acidic or Odi	saless	
Specific Gravity (wa	ter=1): 1.7 Density: lbs/gal		
Does this material co	ontain any total phenolic compounds? Yes	ØNo	
Does this material co	ontain any para substituted phenolic compounds	? 🗌 Yes 🔏	⊠No
Layers:	⊠ Single-phase ☐ Multi-phase		
Container Type: Container Size:	Drum Tote	Truck	Other (explain)
Frequency:	□ Weekly □ Monthly □	Quarterly	Yearly
4	K/N.		S. If my Arid
Proper U.S. DOT Shi	ipping Name: RQ, Comsive L	MADRIC	NI D.S. (WHEN COUNTY SOFT ATTOM)
Class: 8	UN/NA: UN 1740	PG:	RQ: 100

Flash Point	pH <	N/A	N/A	Solids 0% 0 //2
Oil&Grease _mg/l	TOC _mg/l	Zinc mg/l		Nickel mg/l < \

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
= 90% Sulfunic Acid	85 - 95 %	lo
BALANCE WATCH with trace amounts of SALT	15 - 5 %	%
/		
·		}

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.

See MSDS

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.

See MSDS

SECTION 7: Incompatibilities

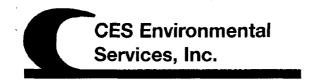
Please list all incompatibilities (if any):

See MSDS

SECTION 8: Material Producer's Certification

The information contained herein is based on generator knowledge and/or analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Date: 5-21-09
Printed Name/Title: Glin Edwards / Chemistry Environmental Specialist
Technical Manager: Approved Rejected Approved Rejected
Approval Number:



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

Date: 6/02/09

To: Gary Brauckman

CC: Matt Bowman, Prabhaker, Jay Matlock

From: Miles Root Lab Memo: 09-105

Subject: Entergy Lewis Creek Evaluation 0509-52

A sample of sulfuric acid from Entergy Lewis Creek, Willis, TX, has been evaluated for potential recycle use at PACES. This sample is evaluation 0509-52 and is stated to be a mixture of 2000 gallons of 98% sulfuric acid and 200 gallons of caustic. The potential volume of this stream is approximately 2000 gallons. We can use this material at PACES for neutralization purposes.

This sample is pale green in appearance and has a density of 1.52. Since this acid has some salts from the caustic addition it's impossible to know its exact strength from this gravity, but I'm guessing it's around 60%. I tested this acid on some of our PACES phenolic caustic to see how it reacted. It appears to break out the cresylic acids just fine with no unusual observations noted. I also mixed this acid with some of our CES plant acid just to see any potential reactions. Nothing noted unusual.

Other than the fact that the pale green appearance is a little unusual, this acid will work fine for PACES use. It's acquisition is recommended.

Jennifer Rust

From:

Matt Bowman

Sent:

Tuesday, June 02, 2009 9:48 AM

To:

Miles Root; Jennifer Rust

Cc:

Prabhaker Thangudu; Jay Matlock; Steve Stricker; Bo Cumberland

Subject:

RE: Entergy Lewis Creek Evaluation 0509-52

This will be profiled directly into Paces....PFI should state that it needs to be put directly into one of the plastic tanks....I do not want to mix it with stronger acid because there could be a lot of heat generated from heat of dilution.

From: Miles Root

Sent: Tuesday, June 02, 2009 9:42 AM

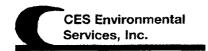
To: Gary Brauckman

Cc: Matt Bowman; Prabhaker Thangudu; Jay Matlock **Subject:** Entergy Lewis Creek Evaluation 0509-52

The attached memo details the work on Entergy Lewis Creek evaluation 0509-52.

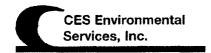
Miles Root Laboratory and Quality Assurance Manager CES Environmental Services, Inc. 4904 Griggs Road Houston, TX 77021

Cell: 832-607-6678 Fax: 713-748-8664



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	How I gal
2.	Contamination Limits (maximum limit before surcharges apply):
3.	Surcharge Pricing:
4.	Special Testing Requirements:
5.	Treatment and Handling Protocol:
	offwad directly into plastiz tanks
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

. Test	s for Product Recovered/Recycled (if applicable):
. Man	agement for Product Recovered/Recycled (if applicable);
1	WEATHER TO A TOWN A TOWN AND THE TOWN AND TH

RUN DATE: 01/05/98 CHEMICAL CONTROL SYSTEM
RUN TIME: 1040 MATERIAL SAFETY DATA SUBER

PAGE: MSDS NO:532119 MATERIAL SAFETY DATA SHEET REV NO:0001 OF 0001

MFG PROD #: NR

SUSPECTED CARCINOGEN

CHEMICAL PERMIT NO: NR

STK NO: NOT FOUND

STATUS : 10-APPROVED FOR USE

PROD. NAME: SULFURIC ACID, 77 TO 100%

COMMON NAME: NR

CHEM. NAME: SULFURIC ACID

PRODUCT/MANUFACTURER INFORMATION

MFG NAME: DUPONT, E. I.

ADDRESS: 1007 MARKET ST TEL #: 1-800-JJU-9442

CT/ST/ZP: WILMINGTON ,DE 19898 24-HR#: 1-800-441-3637

CAS NO: NR

TRADE SECRET: NR (Y/N)

FORMULA: H2SO4 CHEM. FAMILY: NR

DATE ISSUED: 02-24-1992 DATE ENTERED: 03-05-1992 DATE REVISED: 03-06-1992

SECTION II HAZARDOUS INGREDIENTS

PRINCIPLE COMPONENT:

SULFURIC ACID

PEL V.TT

PERCENT MG/M3 SKIN CAS NO. MG/M3 PPM PPM7664-93-9 NR NR NR NR

HAZARD INGREDIENTS INFORMATION:

SECTION III PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING PT: 380.00 F FREEZING PT: NR MELTING PT: -31.00 F MOLECULAR WEIGHT: 98.08 VAPOR PRESSURE: 77

PH: <1 VAPOR DENSITY: 3.4 (AIR=1)REACTIVITY IN WATER: NR SPECIFIC GRAVITY: NA (H20=1)

EVAPR RATE: <1 SOLUBILITY IN H2O: 100%

PERCENT VOLATILE BY VOLUME: NR

HAZARD CLASSIFICATION

SOURCE: NFPA FLAMMABLE: 0 HEALTH: 3 REACTIVITY: 2 SPECIAL: NR

APPEARANCE AND ODOR:

OILY; CLEAR TO TURBID LIQUID/COLORLESS TO LIGHT GRAY

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT: NA TEST METHOD: NA FLAMMABLE LIMITS LOWER: NA UPPER: NA

EPAPA001000581

CCS31A-V.00007

ENTERGY RUN DATE: 01/05/98 CHEMICAL CONTROL SYSTEM
RÜN TIME: 1040 MATERIAL SAFETY DATA SHEET

PAGE: MSDS NO:532119 REV NO:0001 OF 0001

SUSPECTED CARCINOGEN

CHEMICAL PERMIT NO: NR STK NO: NOT FOUND

STATUS : 10-APPROVED FOR USE

PROD. NAME: SULFURIC ACID, 77 TO 100%

COMMON NAME: NR

CHEM. NAME: SULFURIC ACID

FIRE AND EXPLOSION DATA (CONTINUATION) SECTION IV

EXTINGUISHING MEDIA: NA AUTO-IGNITION POINT: NA

SPECIAL FIRE FIGHTING PROCEDURES:

EVACUATE PERSONNEL TO A SAFE AREA. KEEP PERSONNEL REMOVED AND UPWIND OF FIRE. GENERATES HEAT UPON ADDITION OF WATER, WITH POSSIBLE SPATTERING. WEAR FULL PROTECTIVE CLOTHING. RUNOFF FROM FIRE CONTROL MAY CAUSE POLLUTION. NEUTRALIZE RUN-OFF WITH LIME, SODA ASH, ETC. TO PREVENT CORROSION OF METALS AND FORMATION OF HYDROGEN GAS. WEAR SELF-CONTAINED BREATHING APPRATUS IF FUMES OR MISTS ARE PRESENT.

USE WATER SPRAY TO COOL CONTAINERS EXPOSED TO FIRE; DO NOT GET WATER INSIDE CONTAINERS.

-----DC -

UNUSUAL FIRE AND EXPLOSION HAZARDS:

REACTS WITH MOST METALS, ESPECIALLY WHEN DILUTE, TO GIVE FLAMMABLE, POTENTIALLY EXPLOSIVE HYDROGEN GAS. FOLLOW APPROPRIATE NATIONAL FIRE PROTECTION ASSOCIATION CODES.

SECTION V PHYSICAL HAZARDS

STABILITY STABLE: NR (Y/N)

HAZARDOUS POLYMERIZATION MAY OCCUR: NR (Y/N)

PHYSICAL HAZARDS INFORMATION:

INSTABILITY: STABLE, BUT REACTS VIOLENTLY WITH WATER AND ORGANIC MATERIALS WITH EVOLUTION OF HEAT.

DECOMPOSITION: RELEASES SULFUR DIOXIDE AT EXTREMELY HIGH TEMPERATURES.

INCOMPATIBILITY: VIGOROUS REACTIONS WITH WATER; ALKALINE SOLUTIONS; METALS, METAL POWDER; CARBIDES; CHLORATES, FUMINATES; NITRATES; PICRATES; STRONG OXIDIZING, REDUCING, OR COMBUSTIBLE ORGANIC MATERIALS. HAZARDOUS GASES ARE EVOLVED ON CONTACT WITH CHEMICALS SUCH AS CYANIDES, SULFIDES, AND CARBIDES.

HEALTH HAZARDS

CARCINOGENIC INFORMATION

NTP: N IARC: S OSHA: N ACGIH: NR RTECS: NR (Y/N/S/NA/NE)

CCS31A-V.00007

ENTERGY RUN DATE: 01/05/98 CHEMICAL CONTROL SYSTEM MSDS NO:532119
RUN TIME: 1040 MATERIAL SAFETY DATA SHEET REV NO:0001 OF 000

PAGE: REV NO:0001 OF 0001

SUSPECTED C'ARCINOGEN

STK NO: NOT FOUND CHEMICAL PERMIT NO: NR

STATUS : 10-APPROVED FOR USE

PROD. NAME: SULFURIC ACID, 77 TO 100%

COMMON NAME: NR

CHEM. NAME: SULFURIC ACID

HEALTH HAZARDS (CONTINUATION) SECTION VI

EXPOSURE ACUTE/CHRONIC:

CAUSES SEVERE BURNS TO EYES, SKIN, AND ALL BODY TISSUE. EYE DAMAGE MAY BE PERMANENT. DESTRUCTION OF TISSUE MAY RESULT FROM DIRECT CHEMICAL REACTION WITH TISSUE, FROM THERMAL BURNS, AND FROM DEHYDRATION (REMOVAL OF WATER) OF THE TISSUE.

THE CONCENTRATED COMPOUND IS CORROSIVE TO THE SKIN AND EYES OF ANIMALS. INGESTION IT IS MODERATELY TOXIC IN ANIMALS CAUSING CORROSION OF MUCOSAL SURFACES. TOXIC EFFECTS DESCRIBED IN ANIMALS FROM SINGLE EXPOSURES BY INHALATION INCLUDE RESPIRATORY IRRITATION. ANIMAL TESTING INDICATES THAT THIS COMPOUND DOES NOT HAVE CARCINOGENIC, MUTAGENIC, EMBRYOTOXIC, OR REPRODUCTIVE EFFECTS.

HUMAN HEALTH EFFECTS OF OVEREXPOSURE TO THE LIQUID BY SKIN OR EYE CONTACT MAY CAUSE EYE CORROSION WITH CORNEAL OR CONJUNCTIVAL ULCERATION; OR SKIN BURNS OR ULCERATION. INGESTION OF THE LIQUID MAY CAUSE SEVERE BURNS TO THE MUCOUS MEMBRANES OF THE MOUTH AND ESOPHAGUS. REPEATED OR PROLONGED CONTACT WITH MISTS MAY CAUSE EYE IRRITATION WITH DISCOMFORT, TEARING OR BLURRING OF VISION; OR SKIN IRRITATION WITH DISCOMFORT OR RASH. HUMAN HEALTH EFFECTS OF OVEREXPOSURE BY INHALATION MAY INCLUDE IRRITATION OF THE UPPER RESPIRATORY PASSAGES; OR EROSION OF DENTAL SURFACES. HIGHER EXPOSURES BY INHALATION MAY LEAD TO TEMPORARY LUNG IRRITATION EFFECTS WITH COUGH, DISCOMFORT, DIFFICULTY BREATHING, OR SHORTNESS OF BREATH, REQUIRING PROMPT MEDICAL ATTENTION

INDIVIDUAL WITH PREEXISTING DISEASES OF THE LUNGS MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

----- FC -

EMERGENCY FIRST AID:

INHALATION: IF INHALED, REMOVE TO FRESH AIR IMMEDIATELY AND HAVE PATIENT LIE DOWN AND REMAIN QUIET. APPLY ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. GIVE OXYGEN IF BREATHING IS DIFFICULT. CALL A PHYSICIAN. INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. CALL A PHYSICIAN. DO NOT NEUTRALIZE THE ACID. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SKIN OR EYE CONTACT: IN CASE OF CONTACT, IMMEDIATELY (WITHIN SECONDS) FLUSH EYES OR SKIN WITH PLENTY OF WATER (PREFERABLY COLD WATER) FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN. WASH CLOTHING BEFORE REUSE.

WHILE THE PATIENT IS BEING TRANSPORTED TO A MEDICAL FACILITY APPLY COMPRESSES OF ICED WATER. IF MEDICAL TREATMENT MUST BE DELAYED, IMMERSE THE AFFECTED AREA IN ICED WATER. IF IMMERSION IS NOT PRACTICAL, COMPRESSES OF ICED WATER CAN BE APPLIED. AVOID FREEZING TISSUES.

NOTES TO PHYSICIAN.....

CONTINUED WASHING OF THE AFFECTED AREA WITH COLD OR ICED WATER WILL BE

CCS31A-V.00007

CHEMICAL PERMIT NO: NR

ENTERGY

RUN DATE: 01/05/98 CHEMICAL CONTROL SYSTEM MATERIAL SAFETY DATA SHEET

STK NO: NOT FOUND

PAGE: 4 MSDS NO:532119 REV NO:0001 OF 0001

SUSPECTED CARCINOGEN

STATUS : 10-APPROVED FOR USE PROD. NAME: SULFURIC ACID, 77 TO 100% COMMON NAME: NR CHEM. NAME: SULFURIC ACID ****************** HEALTH HAZARDS (CONTINUATION) SECTION VI ************************* HELPFUL IN REMOVING THE LAST TRACES OF SULFURIC ACID. CREAMS OR OINTMENTS SHOULD NOT BE APPLIED BEFORE OR DURING THE WASHING PHASE OF THE TREATMENT. SPECIAL INSTRUCTIONS: ***************** SPECIAL PROTECTION INFORMATION ************************* RESPIRATORY PROTECTION: APPROPRIATE NIOSH/MSHA RESPIRATORY PROTECTION. IN CASE OF EMERGENCY OR WHERE THERE IS A STRONG POSSIBILITY OF CONSIDERABLE EXPOSURE, WEAR A COMPLETE ACID SUIT WITH HOOD. VENTILATION TYPE: GOOD GENERAL VENTILATION SHOULD BE PROVIDED TO KEEP VAPOR AND MIST CONCENTRATIONS BELOW THE EXPOSURE LIMITS. HAND PROTECTION: ACID-PROOF GAUNTLET GLOVES CHEMICAL SPLASH GOGGLES; FULL-LENGTH FACE SHIELD/CHEMICAL SPLASH GOGGLE COMBINATION OTHER PROTECTION: APRON, AND BOOTS; LONG SLEEVE WOOL, ACRYLIC, OR POLYESTER CLOTHING; ACID PROOF SUIT AND HOOD. ****************************** SECTION VIII SPECIAL PRECAUTIONS AND SPILL PROCEDURES LBS SARA REQ:NR LBS DOT REQ:NR CERCLA REQ:NR LBS CERCLA REQ:NR GAL SARA REQ:NR GAL DOT REQ:NR GAL DOT PROPER SHIPPING NAME: NR DOT HAZARD CLASS: NR DOT ID NO: NR RESPONSIBLE GUIDE NO: NR CONVERSION FACTOR: NR

CCS31A-V.00007 ENTERGY

CHEMICAL CONTROL SYSTEM RUN DATE: 01/05/98 RUN TIME: 1040 MSDS NO:532119 MATERIAL SAFETY DATA SHEET REV NO:0001 OF 0001

SUSPECTED CARCINOGEN

STK NO: CHEMICAL PERMIT NO: NR NOT FOUND

STATUS : 10-APPROVED FOR USE

PROD. NAME: SULFURIC ACID, 77 TO 100%

COMMON NAME: NR

CHEM. NAME: SULFURIC ACID

PAGE:

SECTION VIII SPECIAL PRECAUTIONS AND SPILL PROCEDURES (CONTINUATION)

STORAGE PRECAUTIONS:

KEEP OUT OF SUN AND AWAY FROM HEAT, SPARKS, AND FLAME. KEEP CONTAINER TIGHTLY CLOSED AND (DRUM) CLOSURE UP TO PREVENT LEAKAGE. LOOSEN CLOSURE CAREFULLY. RELIEVE INTERNAL PRESSURE WHEN RECEIVED AND AT LEAST WEEKLY THEREAFTER. DO NOT USE PRESSURE TO EMPTY. BE SURE CLOSURE IS SECURELY FASTENED BEFORE MOVING CONTAINER. DO NOT WASH OUT CONTAINER OR USE IT FOR OTHER PURPOSES; REPLACE CLOSURE AFTER EACH WITHDRAWAL AND RETURN IT WITH EMPTY CONTAINER.

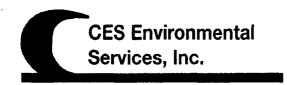
SPILL RESPONSE:

NOTE: REVIEW FIRE AND EXPLOSION HAZARDS AND SAFETY PRECAUTIONS BEFORE PROCEEDING WITH CLEAN UP. USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT DURING CLEAN UP. SUPERFUND REPORTABLE DISCHARGE - 1000 LBS.

STOP FLOW IF POSSIBLE. USE APPROPRIATE PROTECTIVE EQUIPMENT DURING CLEAN UP. SOAK UP SMALL SPILLS WITH DRY SAND, CLAY OR DIATOMACEOUS EARTH. DIKE LARGE SPILLS, AND CAUTIOUSLY DILUTE AND NEUTRALIZE WITH LIME OR SODA ASH, AND TRANSFER TO WASTE WATER TREATMENT SYSTEM. PREVENT LIQUID FROM ENTERING SEWERS, WATERWAYS, OR LOW AREAS. COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS ON REPORTING RELEASES. THE EPA REPORTABLE DISCHARGE IS 1000 LBS.

WASTE DISPOSAL:

CLEANED-UP MATERIAL MAY BE RCRA HAZARDOUS WASTE ON DISPOSAL. DO NOT FLUSH TO SURFACE WATER OR SANITARY SEWER SYSTEM. COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS. IF APPROVED, NEUTRALIZE AND TRANSFER TO WASTE TREATMENT SYSTEM.



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/3/2009

Dear Lee Pinson

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3356

Expiration Date 6/3/2011

Generator: Cameron Compression Systems

Address: 600 South First Street

Ponca City, OK 74604

Waste Information

Name of Waste: Copper sulfate solution

TCEQ Waste Code #: product

Container Type:

Detailed Description of Process Generating Waste:

used acidic plating "this product is NOT waste, it is being used for it's intended purpose

Color: blue

Odor: mild

pH: <1

Physical State:

Incompatibilities: strong bases/caustic **Safety Related Data/Special Handling:**

standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



Pnodut

U.S. EPA ID N	4904 Grig Phone (713) umber: TXO0	ental Services - Ho gs Road, Houston, 676-1460 Fax: (7 08950461 ISV Solid Waste Permit	TX 77021 13) 676-1676 VR Number: 3	i 10900		242 Pho	ivironmental 5 20 S. Gulfway I ne (713) 676-1 umber: TXROO	Dr., Port Arth 460 Fax: (1	iur, TX 7764:	E 50	8585
SECTION 1: Company:	Cameron C	ompression Syst	ėms	en agras under ar medicina missoni di Circini e i	o video video de 1800 de 1800 de 1800 de 1800 de 1800 de 1800 de 1800 de 1800 de 1800 de 1800 de 1800 de 1800 d	1900 2 273), 17240 2 8	nder den de fall (fall To 2013 page) processor von den de fall	en kanada kanada kanada kanada kanada kanada kanada kanada kanada kanada kanada kanada kanada kanada kanada ka			
Address:	600 South	First Street	and and construction of the second second		Heine en all lening mits carrier air Charles (a)		# 4000 CONTROL # 9400 CONTROL OF THE PARTY O	population militaria de la companie de la companie de la companie de la companie de la companie de la companie	Marine Town of School of the Section of Section 1997	auto constituingo co	polyanory topoxicos
City:	Ponca City			State:	OK		Zip:	3.3 <u>0.012.02403.004.373744.00</u> .00	<u> </u>		74604
Contact:	J. Moman				Title:		Env. Mgr.		*******************************	************	
Phone Num		(580) 767-810		**************	_ Fax Numbi	er:	(580) 761-05	21	AND SOME THE SOURCE AND SOURCE STREET, SOURCE SAN	CACTURE COMPA	
24/hr Phone		(580) 761-069)								
US EPA ID N					Market and a second	ungertain.		PARAMETER STREET, WITHOUT THE THE TAX	THE PERSONNEL REPORT OF THE	MATERIAL CO.	Comments and resi
State ID No:	:	DD0040	one can be a second	***************************************	_SIC Code:		distribution of the contract o		BANTADA JARAN KINT BANTADA K INTA AR AN T		CONTRACT OF SOME
SECTION 2: Company: Address:	Sierra Cher		<u>Same as A</u>		an adaptivis a statistic accompletation and in part appearance and	ologica bereste.		enalisa sukerikos sossosokikolosis verkerikisis		egyereaczysaposine	
City:	Hoover			State:	AL.	**********	Zip:			AMPHICA CONTRACTOR	35244
Contact:	M. Pinson		ti adalah pelantuk terbesah dari berandak dari beranda beranda beranda beranda beranda beranda beranda beranda	•	Title:	11000	CFO		dia a mandalen da da da da da da da da da da da da da 		************
Phone Num	ber:	(205) 982-779)		Fax Numbo	er:	(205) 982-06	08			
	plating solut	Copper sulfate Process General tion "This materia Liquid Solid	ing Waste:	aste it is a p Sludge Filter Cake	Ţ]	ed for its into Powder Combination Mild	นองเมลาสมองการกระหากกรณี สายความเกิดกา	ose"		
	Angletic harmon company a management of the State of the		- 4.0		Odor.	•		*** I		,	
Specific Grad		ain any total phe	>1.0 enolic comp	ounds?	\	Yes	Density: <u>≤</u>		bs/gal		
Does this ma	aterial cont	ain any para sub	stituted phe	nolic comp	ounds?		☐ Ye	s 🖸 M	lo		
Answer "Yes	" if your wa	the benzene was ste contains benz	ene AND if	the SIC cod	ie from your	fac	ility is one of	the following		团	No
2812	2813		2819	2821		322	2823	2824	2833		2834
2835	2836		2842	2843		344	2851	2861	2865		2869
2873 3312	2874 495		2879 9511	2891	28	392	2893	2896	2899		2911
Layers:	② Sin	gle-phase	Multi-	phase							
Container Ty	/pe: 🗌	Drum 🔲	Tote ☑	Truck 📋	Other (expl	lain)				
Frequency:		☐ Monthly	☐ Yearly	☐ One-Ti	me						

		us Waste" per plete, sign and (•	☐ Ye: dous Constitu	-	No iched hereto		
If "Yes", Is Characterist	it: ic for Toxic N	D001 (Ignitabl	e) ☑ □ 0004 □ 0010	D002 (Corre	osive) [☐ D003 (Read 6 ☐ D007	tive)	□ 0009	ł
Characterist	ic for Taxic O	rganics: D012	thru D043 (p	ilease list all	that apply)				
		d waste or mix it ALL applicable		7	☐ Ye	5 2	No		
40 CFR 261.	33(e) or (f)?	luct or spill clea	[] Y		"U" or "P" W No	aste code un	der		
Texas State	Waste Code i	Number:		euts-103H	Produc	4			
Proper US D	OT Shipping	Name:	UN3262, Co	rrosive liqui	ds, acidic, ino	rganic, n.o.s.	, (sulfuric aci	d)	
Class:	8	UN/NA:	UN3262, Co	PG:		RQ:	N/A		
Flash	Point	ρŀ		Reactiv	re Sulfides	Reactive	Cyanides	Sa	lids
No	ne	<1		0	mg/l	0	mg/l	<2	%
Oil &	Grease	OT	*		Zinc	Сор	per	Nic	kel
0	mg/l	0	<u>mg/l</u>	0	mg/l	>10000	mg/l	0	<u>mg/l</u>
SECTION 4:		Chemical Data							
	T-8380	ログいにんてく てんり	3 34	3		CONCENT	oa min		i imite

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or%
Copper sulfate	15-20	%
Sulfuric acid	20-25	9%
Water	60-65	%
7.000		
CNICK CONTROL AND CONTROL OF CONT		
Application of the second of t		
		erlantstanderstillen delt en gegenat.
		LUL, PARE DE LUCIO DE COLO PER PER PER PER PER PER PER PER PER PER
(1) 10 10 10 10 10 10 10 10 10 10 10 10 10		AND ASSESSED ASSESSED ASSESSED.

SECTION 3. SHEET	
_	this waste requires the use of special protective equipment, please explain.
Standard PPE	
SECTION 6: Attac	hed Supporting Documents
List all documents	, notes, data and/or analysis attached to this form as part of the waste
approval package.	none

	Propegy
SECTION 7: Incom	<u>ipatibilities</u>
	ompatibilities (if any):
Strong bases/caus	•
Car and San and Care	
Commence of the commence of th	
SECTION 8: Gene	rator's Knowledge Documentation
Laboratory analys	is of the hazardous waste characteristics, listed below, WAS NOT PERFORMED
,	flowing generator knowledge:
TCLP Metals:	none
TCLP Volatiles:	noné
TCLP Semi-Volatile	
Reactivity:	NORE
Corrosivity:	Yes
ignitability:	No
	Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment
Facilities)	
	material a wastewater or wastewater sludge?
Q.F	"Yes', complete this section.
PLEAS	E CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Metals Subcategors	<u> </u>
guining	electroplating baths and/or sludges
· · · · · · · · · · · · · · · · · · ·	finishing rinse water and sludges
Eventual.	nate wastes
garage.	liution control blow down water and sludges
p.w.m	anodizing solutions ration wastewaters
Aurenta 27mma	liquid mercury
- prompty	de-containing wastes greater than 136 mg/l
	acids and bases with or without metals
Cleani	ng, rinsing, and surface preparation solutions from electroplating or phosphating operations
☐] Vibrat	ory deburring wastewater
☐ Alkalir	re and acid solutions used to clean metal parts or equipment
Alle C. Lamburgon	**************************************
Qils Subcategory: 3	·
p=1975.	res riter emulsions or mixtures
Coolar	
process.	minated groundwater clean-up from petroleum sources
aterioropie.	petroleum products
	R clean-up
☐ Bilge v	vater
☐ Rinse/	wash waters from petroleum sources

	Interceptor wastes
	Off-specification fuels
님	Underground storage remediation waste
H	Tank clean-out from petroleum or oily sources
احا	Non-contact used glycois Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
13	
Organics Sub	category: Subpart C
Every or	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bearing wastes
L	Off-specification organic product
닐	Still bottoms
님	Byproduct waste glycol
닉	Wastewater from paint washes
	Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations
<u> </u>	Tank clean-out from organic, non-petroleum sources
ئسنا	Table Legal food 1 Glass of Bell and the food and account
(1)	
	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	The state of the s
	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
	excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/L
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/l
(3)	
	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper,
	or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
	∠ Metals Subcategory
	☐ Oils Subcategory
	Organics Subcategory
SECTION 10	Additional Instructions
)Y	the state of the s
-	determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium,
	el, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This
Will be prior t	o acceptance. The generator will be responsible for the cost of the analysis.
CECTION 11	Comprehenie Contification
,	: Generator's Certification
	tion contained herein is based on 🔛 generator knowledge and/or 🔲 analytical data.
-	tify that the above and attached description is complete and accurate to the best of
	ge and ability to determine that no deliberate or willful omissions of compostion
properties e	xist and that all known or suspected hazards have been disclosed. I certify that the
materials te	sted are representative of all materials described by this document.
	Signature: 5/31 (09
Authorized	Signature: Date: 0/3/10/
Printed Nan	ne/Title: L. Pinsan/President
CES USE ON	LY (DO NOT WRITE IN THIS SPACE)
	0 1 00
Compliance	Officer: ValM-AK LAND
Date:	- 2-00 [VApproved [] Rejected
10	and the second s
Approval Nu	HPINET.



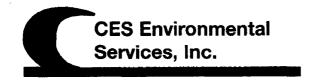
PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
\$ 0.30/gal + trans+fsc
2. Contamination Limit (maximum limit before surchages apply):
<0.5% Solids, 715% acid by tidration
3. Surcharge Pricing:
4. Special Testing Requirements:
Acid Amalysis: pH, s.g., % Hz.sou by hitration,
F. Tuestment and Hendling Duetocals
5. Treatment and Handling Protocol: Place in to acid product tank
Place mos acis prosince tarm
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests to	r Product	Recovered/Recycled	(if applicable):		
	Sea	Section 4			
ı					
		Product Recovered/R	ecycled (if applicab	le)	
	See	Section 5			



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Joy Baker

Date: 5/19/09

Cc: Matt Bowman, Clint Hopkins, Prabhaker, Sam Brown

From: Miles Root Lab Memo: 09-093

Subject: Sierra Chemical Evaluations 0509-18 thru 21

Four different samples of waste material from Sierra Chemical (Cameron Compression), have been evaluated for potential processing/use at CES/PACES. These four samples are evaluations 0509-18 thru 21. A summary of each sample follows.

Evaluation 0509-18 is a spent sulfuric acid. The potential volume is one load every two months. This sample has a density of 1.370. An addition of 50% NaOH to neutralize this acid shows it to be just under 50%. These two pieces of data indicate that this acid is around 47% wt% sulfuric acid.

It is clean looking material which springs out crude cresylic acid or liberates hydrogen sulfide from spent caustics. I treated this sample as water just to see how it would process. Of course it requires an excessive amount of caustic for it to be neutralized, but the water produced is good looking with low metals. Since it will add value to our business as an acid we should use it in that capacity. I recommend that we try this acid at PACES in either our cresylic acid or NaSH production process.

Evaluation 0509-19 is some type of spent caustic. The potential volume of this material is one load per quarter. This sample has a density of 1.147, which should equate to 15% caustic. A titration shows this caustic to be 8.8 wt% as NaOH, but it does contain a significant amount of sodium carbonate as well. Its high carbonate content is indicated by the excessive foaming noted during the titration with HCl. Sodium carbonate will not be a part of any reaction for strengthening our NaSH production, and will actually lower the sulfide component. Currently we get no compensation for the carbonates in our NaSH product.

The strength of usable caustic is too low for profitable use at PACES. Metals on the neat sample show very high zinc and chromium. If we can make some good money for taking this material then it needs to go to PACES. We can put it into the NaSH product tank to consume the small amount of hydrogen sulfide that it will do. It will not make us any money on the NaSH sales side so we need to cover our costs up front. I don't see a better option if we really want to take this material.

Evaluation 0509-20 is waste water. The potential volume is three loads per month. This water has a pH of 6 and contains orange/brown silt from its previous use. When treated, it produces an extremely high volume of solids which I estimate to be at least 75% when spun down. Metals and TOC are low, with no phenols. Odor is not an issue. We can treat this water at CES but need to price as though we are going to filter press this entire load, as that may happen.



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

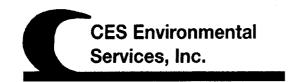
Evaluation 0509-21 is an unknown cleaning solution. It is called CL 2000 spent acid. The potential volume of this material is four totes per quarter. It has a pH of around 3 but does not act like it has much acid strength left in it. When reacted with sulfidic caustic its reaction causes only a trace quantity of hydrogen sulfide to be released. It also forms an emulsion looking product that will need to be disposed. Odor is not really an issue with this stream

This material contains a soap or detergent as it foams when shaken, and the foam remains for quite some time afterwards. This material does not really treat. It forms a sludge when mixed with caustic and/or lime that never separates out into anything that can be processed. Metals on the neat sample are extremely high in zinc and chromium.

This is not an acid that will add value to CES or PACES, nor does it respond to waste water treatment. Since it is only four totes per quarter our only logical processing scheme is to bring it into CES and slowly process it over time into our tanks. The volume of sludge that is produced will evenly distribute itself out over thousands of gallons of water. These four totes will all end up in our filter cake box over time. If our pricing will be high enough to cover this considerable amount of extra handling that will be involved and we can make some good money, then this is an option we should seriously consider.

The table below summarizes the analytical data and recommendations on the above samples.

	Sierra	Chemicals		
	Evaluations	0509-18 thru	21	
	0509-18	0509-19	0509-20	0509-21
H2SO4, wt%	47			
NaOH, wt%	 	8.8		
Specific Gravity	1.137	1.147		
CES Use	No	No	Yes	Yes
PACES Use	Yes	Yes	No	No
Odor Issues	None	None	None	None
Treatability	Use @ PACES	N/A	Difficult	Very Difficult
Phenols, ppm	 	1	0	0
Metals	[·	Treated Sx	Untreated Sx
Ni	1	1	0.11	71
Zn	 	\$! !	0.022	2.432
Cu	 		0.032	0.558
Cd	 		0.01	0.146
Cr	 	1	0	174
Recommended?	Yes	Yes	Yes	Yes



Waste Pre-Acceptance/Approval Letter

Date 6/3/2009

Dear Lee Pinson

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3357

Expiration Date 6/3/2011

Generator: Cameron Compression Systems

Address: 600 South First Street

Ponca City, OK 74604

Waste Information

Name of Waste: Sodium hydroxide solution

TCEQ Waste Code #: Product

Container Type:

Detailed Description of Process Generating Waste:

used plating solution "this material is not a waste, it is product being used for what its intended purpose"

Color: varies

Odor: mild

pH: >14

Physical State:

Incompatibilities: strong acids

Safety Related Data/Special Handling:

standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



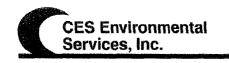
Product

								edurance and other transfer		
	4904 Grig	ental Services - Houses gs Road, Houston, TX	77021	Ø	247	0 S. Gulfway	Services · Port A / Dr., Port Arthur,	TX 77641		
	rnone (/13) t lumber: TXDO	176-1460 Fax: (713)	676-1676 Number: 30900			ne (/13) 6/6 umber: TXR(-1460 Fax: (713	J 6/6-146 WR Numb		ar
		olid Waste Permit N		' '	ij, cemili ii	OHIDER INK)UUU13301 13	AALK KATIIIIT	161.000	100
1,40	ri manantara	nin wate Leimir III	umber, 30248					Nandali walio wa mala wa		
SECTION 1:	Generator I	nformation								
Company:		ompression System	ıs							
Address:	600 South F							**************************************	KERKETER STERNINGSTON	ACTION SURPRISONS
City:	Ponca City		Stat	e: OK		Zip:			74	1604
Contact:	J. Moman		~ (3.4	Titl	e:	Env. Mgr.		THE STREET, A PROPERTY OF STREET, STRE	W.S. AMPRILLA	Same Same
Phone Num	**************************************	(580) 767-8101		- Carlotte - Carlotte		(580) 761-(1521	With the state of		
24/hr Phone		(580) 761-0699				CONTRACTOR OF CONTRACTOR OF	Server Commence Comme			••••
US EPA ID N		ALL COMMENTS OF THE PARTY OF TH		CHARLES AND AND ADDRESS AND AD						
State ID No:		000040		SIC	Code:				······································	
SECTION 21	Billing Infor	mation - 🗍 :	Same as Abov	74						
arenona. Company:	Sierra Chen		seine ea navy	<u>e</u>						
Address:		lake Pkwy., Suite 3	A PMR 101	and the second second second second second	in the second second second second second second second second second second second second second second second		<u> </u>			
City:	Hoover	torice a stankil meser in	Stat	e: AL		Zip:			30	5244
Contact:	M. Pinson	Control of the Contro		Titl		CFO	***************************************	E-TANK - CANADA - CAN	ner Sen.	SANGE AND THE REAL
Contact. Phone Num		(205) 982-7799		PANAL PROPERTY OF THE PARTY OF		{205} 9824	nc.ne	THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND P	Long transaction to the Control	in company and in the company of the
\$ 3 PM-0 PM PM PM-5 9 3	RAPRE P 4	1447) 465. 164	and the state of t	e en		[&&&&].461&.*1	And A	OTT. 2000 (12 CO. 12 CO		
SECTION 3:	General De:	cription of the Wa	ste							
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Detailed De	scription of	Process Generatini	g Waste:							
Used plating	solution "T	nis material is not a	waste it is a p	roduct bei	ng used for	its intend p	ourpose"	······································	·····	
Physical Sta	te: 🖸	Liquid	☐ Slud	ge-	m	Powder				
t talkertenne meter	n	Solid		r Cake	H	Combination	on			
	Land				t					
Color:	Varies		All page 490	Od	or:	Mild				
Specific Gra	vity (water=	1): >1	.0			Density:	<10 lbs/	gal		
en a a se ela fra con				. 4		6	ADMILITARINA YANGA YANGA MARIANI MARIANI YANGA MARIANI YANGA MARIANI M			
Does this m	aterial conti	iin any total pheno	lic compound	57	∐ Yes	[v]	No			
Does this m	aterial conta	iin any para substi	tuted phenolic	compoun	ds?		/es 딜 No			
is the Wastr	subject to t	:he benzene waste	operation MF	OA) SGAHZ	CFR Part A	L. Subnart I		Yes	3 (No
	-	ite contains benzei		-			•		<u>.</u>	•••
2812			2819	2821	2822	2823	2824	2833	3	834
2835			2842	2843	2844	2851	2861	2865		869
Z873										
3312	4953		2879 9511	2891	2892	2893	2896	2899	2	911
Layers:	☑ Sin	gle-phase] Multi-phas	e						
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_unumert)	Ahe: \square	Drum 🗌 To	ce <u>v</u> inuk	K LJUTN	er (explain	ı				
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If "Yes", is it: Characteristic f Characteristic f	for Toxic M		□ D004 □ D010	□D011	□ 0 006	D003 (Rea □ D007		□ D009	
Is this an "F" o		d waste or mix t ALL applicab		17	☐ Yes	[J	No		
Is this a comme 40 CFR 261.33(If "Yes", ther	(e) or (f)?	uct or spill cle t ALL applicab	Y		a "U" or "P" wa] No	ste code ui	nder		
Texas State Wa				-	de / Produ		- . (sodium hy:	droxide)	
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			District Control of the Control of t	-	***************************************	-	CARLO CARLO CONTROL CO		
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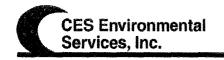
	-		use of special prote	ective equipme	ent, please ex	plain.	
	ıments, note	upporting Docum s, data and/or and none	<u>ents</u> alysis attached to t	his form as par	t of the wast		
ACCORDING NO. NO. NO. OF CO.	-	illities Ibilities (if any):					
Laboratory	analysis of t	s Knowledge Doct the hazardous was ng generator know	te characteristics, l	isted below, W	'AS NOT PERI	FORMED	
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TCLP Semi-	Volatiles:	none				(ALLENNIC TOTAL TO	
Reactivity:		поле					
Corresivity:		yes					
Ignitability:		none		CANADOMICA CACINO CONTOCONO DE CANADO NA CAL			
SECTION 9: Facilities	Is this mater		· wastewater sludge			rements f	or Centralized Waste Treatmens
			TE BOX. IF NO APPR	OPRIATE CATEG	SORY, GO TO	THE NEXT	PAGE.
	Metal finish Chromate w Air pollution Spent anodi Incineration Waste Ilquic Cyanide-cor Waste acids Cleaning, rir Vibratory de	oplating baths and, ing rinse water and astes control blow down zing solutions wastewaters I mercury taining wastes grea and bases with or using, and surface puburring wastewate	sludges n water and sludges ater than 136 mg/l Without metals reparation solutions		nting or phospl	nating ope	erations
Account	<u>gory</u> : Subpai	t B					
<u> </u>	Used oils Oil-water en	nulsions or mixture:	\$				
L	Lubricants	· wer confirmed that must be stated to the fitting					
	Coolants						
			an-up from petroleu	m sources			
the same	Used petrolo Oli spili clea						
- Control) Bilge water	e · 되는					
		waters from petrole	eum sources				

interceptor wastes
Understand above and the second state of the second
Underground storage remediation waste Tank clean-out from petroleum or oily sources
Non-contact used glycols
Aqueous and oil mixtures from parts cleaning operations
Wastewater from oil bearing paint washes
The state of the s
Organics Subcategory: Subpart C
Landfill leachate
Contaminated groundwater clean-up from non-petroleum sources
Solvent-bearing wastes
Off-specification organic product
Still bottoms
Byproduct waste glycol
Wastewater from paint washes
Wastewater from adhesives and/or epoxies formulation
Wastewater from organic chemical product operations
Tank clean-out from organic, non-petroleum sources
{1 }
if the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
to.
(2)
If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
excess of the values listed below, the waste should be classified in the metals subcategory.
Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/t.
If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
SECTION 10 Additional Instructions
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11: Generator's Certification
The information contained herein is based on generator knowledge and/or analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of
my knowledge and ability to determine that no deliberate or willful omissions of composition
properties exist and that all known or suspected hazards have been disclosed. I certify that the
materials tested are representative of all materials described by this document.
Authorized Signature:
Printed Name/Title: L. Pinson/President
CES USE ONLY (DO NOT WRITE IN THIS SPACE)
Compliance Officer: Yalnull land
Date: 6-2-09 Papproved Rejected
Approval Number: PA-3257
PAPPAGE I THE CONTROL OF THE PAPPAGE



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
0.40/gal thrans
2. Contamination Limit (maximum limit hefore curchages apply):
2. Contamination Limit (maximum limit before surchages apply): 20.5%. Solido, 75% Caustic by hitration
3. Surcharge Pricing:
4. Special Testing Requirements: Caustic Analysis: pH, 5.g., % Naol by Fitzation
5. Treatment and Handling Protocol:
Put into Nasit product tank
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

	7. Tests for Product Recovered/Recycled (if applicable):			
8. Management for Pr	roduct Recovered/Recycled (if applicable)			
8. Management for Pi	roduct Recovered/Recycled (if applicable)			
8. Management for Pi	roduct Recovered/Recycled (if applicable)			
8. Management for Pi	roduct Recovered/Recycled (if applicable)			
8. Management for Pi	roduct Recovered/Recycled (if applicable)			
8. Management for Pi	roduct Recovered/Recycled (if applicable)			



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Joy Baker

Cc: Matt Bowman, Clint Hopkins, Prabhaker, Sam Brown

Date: 5/19/09

From: Miles Root

Lab Memo: 09-093

Subject: Sierra Chemical Evaluations 0509-18 thru 21

Four different samples of waste material from Sierra Chemical (Cameron Compression), have been evaluated for potential processing/use at CES/PACES. These four samples are evaluations 0509-18 thru 21. A summary of each sample follows.

Evaluation 0509-18 is a spent sulfuric acid. The potential volume is one load every two months. This sample has a density of 1.370. An addition of 50% NaOH to neutralize this acid shows it to be just under 50%. These two pieces of data indicate that this acid is around 47% wt% sulfuric acid.

It is clean looking material which springs out crude cresylic acid or liberates hydrogen sulfide from spent caustics. I treated this sample as water just to see how it would process. Of course it requires an excessive amount of caustic for it to be neutralized, but the water produced is good looking with low metals. Since it will add value to our business as an acid we should use it in that capacity. I recommend that we try this acid at PACES in either our cresylic acid or NaSH production process.

Evaluation 0509-19 is some type of spent caustic. The potential volume of this material is one load per quarter. This sample has a density of 1.147, which should equate to 15% caustic. A titration shows this caustic to be 8.8 wt% as NaOH, but it does contain a significant amount of sodium carbonate as well. Its high carbonate content is indicated by the excessive foaming noted during the titration with HCl. Sodium carbonate will not be a part of any reaction for strengthening our NaSH production, and will actually lower the sulfide component. Currently we get no compensation for the carbonates in our NaSH product.

The strength of usable caustic is too low for profitable use at PACES. Metals on the neat sample show very high zinc and chromium. If we can make some good money for taking this material then it needs to go to PACES. We can put it into the NaSH product tank to consume the small amount of hydrogen sulfide that it will do. It will not make us any money on the NaSH sales side so we need to cover our costs up front. I don't see a better option if we really want to take this material.

Evaluation 0509-20 is waste water. The potential volume is three loads per month. This water has a pH of 6 and contains orange/brown silt from its previous use. When treated, it produces an extremely high volume of solids which I estimate to be at least 75% when spun down. Metals and TOC are low, with no phenols. Odor is not an issue. We can treat this water at CES but need to price as though we are going to filter press this entire load, as that may happen.



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

Evaluation 0509-21 is an unknown cleaning solution. It is called CL 2000 spent acid. The potential volume of this material is four totes per quarter. It has a pH of around 3 but does not act like it has much acid strength left in it. When reacted with sulfidic caustic its reaction causes only a trace quantity of hydrogen sulfide to be released. It also forms an emulsion looking product that will need to be disposed. Odor is not really an issue with this stream.

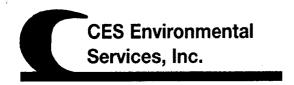
This material contains a soap or detergent as it foams when shaken, and the foam remains for quite some time afterwards. This material does not really treat. It forms a sludge when mixed with caustic and/or lime that never separates out into anything that can be processed. Metals on the neat sample are extremely high in zinc and chromium.

This is not an acid that will add value to CES or PACES, nor does it respond to waste water treatment. Since it is only four totes per quarter our only logical processing scheme is to bring it into CES and slowly process it over time into our tanks. The volume of sludge that is produced will evenly distribute itself out over thousands of gallons of water. These four totes will all end up in our filter cake box over time. If our pricing will be high enough to cover this considerable amount of extra handling that will be involved and we can make some good money, then this is an option we should seriously consider.

The table below summarizes the analytical data and recommendations on the above samples.

Sierra Chemicals				
Evaluations 0509-18 thru 21				
	0509-18	0509-19	0509-20	0509-21
H2SO4, wt%	47	[,	
NaOH, wt%		8.8	 	
Specific Gravity	1.137	1.147		
CES Use	No	No	Yes	Yes
PACES Use	Yes	Yes	No	No
Odor Issues	None	None	None	None
Treatability	Use @ PACES	N/A	Difficult	Very Difficult
Phenols, ppm			0	0
Metals	1	1	Treated Sx	Untreated Sx
Ni	[0.11	71
Zn			0.022	2.432
Cu			0.032	0.558
Cd	 	1	0.01	0.146
Cr	1	; !	0	174
Recommended?	Yes	Yes	Yes	Yes

PA-3369 Eagle LonstRuction & Env Suck



Material / Product Approval Letter

Date 6/15/2009

Michael Romeo Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3369

Expiration Date 6/12/2011

Producer: Eagle Construction & Environmental Services

Address: 1700 North 6 Street

La Porte, TX 77571

Material / Product Information

Name of Material / Product Sodium hydroxide solution

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

pH: >12

Unused sodium hydroxide solution

Color: water white Odor: none

Physical State:

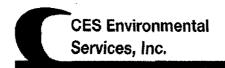
Incompatibilities: acids, oxidizing agents Safety Related Data/Special Handling:

Chem suit, rubber gloves, rubber boots, safety goggles, face shield, hard hat

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



☐ CES Environmental Services – Houston Facility CES Environmental Services - Port Arthur Facility 4904 Griggs Road, Houston, TX 77021 2420 S. Gulfway Drive, Port Arthur, TX 77641 Phone: (713) 676-1460 Fax: (713) 676-1676 Phone: (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID No: TXR000079307 ISWR No: 88585 TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900 **SECTION 1: Material Producer Information** Company: Address: City, State, Zip: Title: Contact: Phone No: Fax No: 24/hr Phone: U.S. EPA I.D. No: SIC Code: State I.D. SECTION 2: Billing Information - Same as Above Company: Address: City, State, Zip: Title: Contact: Phone No: Fax No: **SECTION 3: General Description of the Waste** Name of Waste: Sodium hydroxide solution Detailed Description of the Process Generating Waste: Unused sodium hydroxide solution Physical State: ✓ Liquid Sludge Powder Solid Filter Cake Combination water white Odor: Specific Gravity (Water=1): 1.261 9-9.5 lbs / gal Density: Does this material contain any total phenolic compounds? ✓ No Does this material contain any para substituted phenolic compounds? Yes ✓ No Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) **₩** No 2822 2813 2816 2819 2821 2823 2824 2835 2851 2865 2869 2873 2874 3312 4953 4959 9511 2876 2879 2891 2892 2893 2896 2899 2911 Layers: ✓ Single-Phas Multi-Phase Container Type: Drum Tote Truck Other (explain) Container Size : 1000 Number Of Units: Is this a USEPA "Hazardous Waste" per 40 CFR 261.3? Yes V No If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

Color:

2812

2861

If "Yes", is it: D001

□ D002

D003

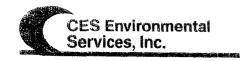
Characteristic for Toxic	Metals: D004	☐ D 005	☐ D006	D(007	
	☐ D008	D009	□ D010	_ D(011	
Characteristics for Toxic	Organics: D012 the	u D043 (pleas	e list all that a	pply)	and the second section in the second section is a second section of the second section section is a second section sec	The state of the Assa State on the Assa State of the Consequence of the State of th
Is this an "F" or "K" List	ed waste or mixed v	vith one?	Yes 🔽	No		
If "Yes", then please	list ALL applicable	codes:		**************************************		Williams and the second
Is this a commercial pro 261.33(e) or (f)?	duct or spill cleanup	that would ca	ırry a "U" or "P	" waste	code under 40 CFR	Yes 🗹 No
If "Yes", then please	list ALL applicable	codes:				
Texas State Waste Code	e No :	Product	NAME AND PART WATER PROPERTY.			
Proper U.S. State Waste	Code No :		Sc	dium h	ydroxide solution	
Class: 8	UN/NA :	UN1824		PG:	11	RQ: 1000
Flash Point >140	pH >12	Re	eactive Sulfide na	s mg/l	Reactive Cyanides na mg/l	Solids 0 %
Oil and Grease	тос		Zinc		Copper	Nickel
na mg/	na na	mg/l	2.1	mg/l	5.87 mg/l	.55 mg/l
SECTION 4: Physical and C	Chemical Data					
	SE COMEQUENE	 Vivasidė (1986)			- Concentia	lion Units
The material	product consists	and definition of the second control of the	人名英格兰人姓氏格兰的变体 (1974年) (1974年) (1974年) (1974年) (1974年)		Ranges are acc	Euclidich eine Witte in der Falle in der Vermitze freier in der sterne eine Bereitste gegen.
	sodium hydi	oxide			>25	%
	water				25-75	%
DECTION F. C. C. C. D. L. C.	D-4-		:			· · · · · · · · · · · · · · · · · · ·
SECTION 5: Safety Related If the handling of this wa		ee of enecial	nrotactiva equ	inman	t niesee evalsin	
Chem suit, rubber gloves	•	•	-	-	i, piease explain.	
	ŕ	, ,	•			
SECTION 6: Attached Supp	orting Documents	**************************************				
List all documents, note	s, data, and/or ana	lysis attached	d to this form :	as part	of the waste approval	package.
none						
				•		
SECTION 7: Incompatibiliti	ae					
Please list all incompati						
acids, oxidizing agents	~y/i					
SECTION 8: Generator's Kr	nowledge Documenta	tion				
Laboratory analysis of the following generators kn		e characterist	tics, listed bel	ow, WA	AS NOT PERFORMED b	ased upon the
TCLP Metals :	<u>x</u>					
TCLP Volatilies :	<u>X</u>					
TCLP Semi-Volatiles :	<u>x</u>					
Reactivity:	X					
			2			

Ignital	oility: <u>x</u>
SECTIO	ON 9: Waste Recelpt Classification Under 40 CFR 437
	material a wastewater or wastewater sludge?
If 'YES	s', complete this section
	SE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAG
	s Subcategory: Subpart A
	Spent electroplating baths and/or sludges
	Metal finishing rinse water and sludges
$\overline{\Box}$	Chromate wastes
	Air pollution control blow down water and sludges
	Spent anodizing solutions
	Incineration wastewaters
	Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phosph
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
Oils S	subcategory: Subpart B
	Used oils
	Oil-water emulsions or mixtures
	Lubricants
	Coolants
	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products
	Oil spill clean-up
	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
	Off-specification fuels
	Underground storage remediation wastes
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
u	Tradovator nom on boaring paint vacance
Organ	nics Subcategory Subpart C
	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bering wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesive and/or epoxies formulation
	Wastewater from organic chemical product operations

Corrosivity:

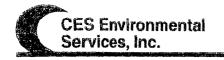
X

Tank clean-out from organic, non-petroleum sources	
(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste shou	ıld be classified in the oils subcategory
(2) If the waste contains oil and grease less than 100 mg/L, and has any of the poll excess of the values listed below, the waste should be classified in the metals s	utants listed below in concentrations in subcategory
Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L	
(3) If the waste contains oil and grease less than 100 mg/L, and does not have con or nickel above any of the values listed above, the waste should be classified in	
☐ Metals Subcatego	
☐ Oils Subcatego	
☐ Organics Subcategory	
SECTION 10: Additional Instruction	
If you cannot determine the correct subcategory in Section 9 and you did not furnish Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commerce concentrations. This will be prior to acceptance. The generator will be responsible for SECTION 11: Generator's Certification	cial laboratory a sample to determine these
The information contained herein is based on generator knowledge and/o above and attached description is complete and accurate to the best of my kn deliberate or willful omissions of composition properties exist and that all knowledge. I certify that the materials tested are febresentative of all materials	owledge and ability to determine that no own or suspected hazards have been described by this document.
Authorized Signature	Date: 6/11/89
Printed Name / Title: /////	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information :
Compliance Officer: Reublu 2 Thy	
Date: 6-15-09 Status: Approved Rejected	
Approval Number: 3364	



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
No cost/No pay FOB PACES.
2. Contamination Limit (maximum limit before surchages apply):
2. Contamination Limit (maximum limit before surchages apply): Must be water-white, free of solids, >25% canotic. No free-flooding oils.
3. Surcharge Pricing:
4. Special Testing Requirements:
% shall by sitration, color, clarity, pt
5. Treatment and Handling Protocol:
5. Treatment and Handling Protocol: Use in fresh caustic tank for Nast production
6. Treated Wastewater Discharge Subcategory:
Subcategory A Subcategory B Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):	
See Section4	
·	
8. Management for Product Recovered/Recycled (if applicable)	
Su section 5"	



pH: 5-10

CES Environmental Services, Inc.

4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/16/2009

Dear Tilden Gaspard

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3377

Expiration Date 6/16/2011

Generator: National Oilwell Varco

Address: 4310 N Sam Houston Pkwy E.

Houston, TX 77032

Waste Information

Name of Waste: Recycable oil filters

TCEQ Waste Code #: Rec

Container Type:

Detailed Description of Process Generating Waste:

Oil filters removed from rental generator units

Color: Varies Odor: None

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



U.S. EPA ID N	CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948					CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585							
SECTION 1:													
Company:	***************************************	al Oilwell \						······································					
Address:			ston Pkwy E.					-,			·····		
City:	Housto		~	S1	tate:	TX		_Zip:		······································			77032
Contact:		Gaspard				Title:		Managem					
Phone Num	+		-482-0605			Fax Num	ber:	713-482-0	0699	·			
24/hr Phon		-	-827-3614										
US EPA ID N		***************************************	ESQG		,						~~~~~~~~~~		······
State ID No	:	CES	QG			SiC Code:	:			······································			
SECTION 2: Company: Address:	Billing	Informatio	<u>n-</u> <u>s</u>	ame as Ab	<u>ove</u>		,,, ·	·					
City:	***************************************			Si	tate:			Zip:					 -
Contact:						Title:		(6.			············		
Phone Num	ber:					Fax Numi	ber:			777-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			
						-				······································			
SECTION 3:	Genera	l Descripti	on of the Was	ste									
				5,2,24									
Name of W	aste:	Recy	clable Oil Filt	ers									
			ss Generating					·			***************************************		
Oil filters re	moved i	rom renta	l generator un	ilts								***********	······································
Physical Sta	ite:	☐ Liqu			udge Iter Cake			Powder Combinat	ion				
Color:	Varies					Odor:		None		Manager (1997)	*****************		····
Specific Gra	vity (wa	ter=1):	<u>1-1</u>	.3		•		Density:	8.5-9	lbs/	gal		
Does this m	aterial c	ontain an	y total phenoi	lic compou	nds?		Yes	·	No				
Does this m	aterial o	ontain an	y para substit	uted phen	olic comp	ounds?			Yes	☑ No			
			nzene waste			-						V	No
			ntains benzen					•		_			
2812		2813	2816	2819	2821		2822	-		2824	2833		2834
2835		2836	2841	2842	2843	:	2844	2853	1	2861	2865		2869
2873		2874	2876	2879	2891	:	2892	2893	3	2896	2899		2911
3312		4953	4959	9511									
Layers:		Single-ph	ase 🗹	Multi-pi	nase								
Container Ty	ype:	☑ Drur	m 🗌 Tot	e 🔲 Tr	ruck 🗵	Other (ex	plain	1)					
		ekly 🗹 i	Monthly [] y boxes	Yearly [One-Ti	me							

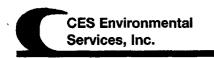
is this a USEPA "Hazardous Waste" per 40CFR 261.3? If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto										
	If "Yes", Is it: □ D001 (Ignitable) □ D002 (Corrosive) □ D003 (Reactive) □ D004 □ D005 □ D006 □ D007 □ D008 □ D009 □ D010 □ D011 □ D011 □ D011 □ D007 □ D008 □ D009 D009 □ D009 □ D009 □ D009 □ D009 □ D009 □ D009 □ D009 □ D009 □ D009 □ D009 □ D009 □ D009 □									
Characteris Na	tic for Toxic O	rganics: D012	thru D043 (olease list a	Il that apply)					
		l waste or mix t ALL applicab		·?	NA Y	es 🖸] No			
40 CFR 261.	33(e) or (f)?	uct or spill cle t ALL applicab			a "U" or "P" \] No 	waste code u	nder	······································		
Texas State	Waste Code i	Vumber:		Recyclable			_			
Proper US D	OT Shipping	Name:	Recyclable	Used oil filt	ers					
Class:	NA	UN/NA:	NA	PG:	NA	RQ:	NA			
Flash	Point	pl	1	React	ive Sulfides	Reactiv	e Cyanides	Soli	ds	
>:	160	5-1	.0	0	<u>mg/l</u>	0	mg/l	98-100	%	
Oil &	Grease	TO	С		Zinc	Co	opper	Nick	el	
Na	mg/l	Na	mg/l	0	<u>mg/l</u>	0	mg/l	0	<u>mg/l</u>	
SECTION 4:	Physical and	Chemical Data								

SECTION 4: 1	Phi	vsical	and	Chemical	Data
--------------	-----	--------	-----	----------	------

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Used Oil Filters	95-100	%
Residual used oil	0-5	%

			ne use of special pro	tective equipmen	nt, please exp	olain.	
	uments, note	upporting Docu s, data and/or a None	iments nnalysis attached to	this form as part	of the waste		
	: Incompatit	pilities tibliities (if any)					
Laboratory	analysis of t	s Knowledge Do he hazardous w ng generator kn	aste characteristics,	listed below, W /	AS NOT PERF	ORMED	
TCLP Meta	łe•	Na					
TCLP Voiat		Na					
TCLP Semi-		Na			·····		
Reactivity:		Na					
Corrosivity		Na				******	
Ignitability		Na					
Binerouses	•	110					
SECTION 9:	Waste Receir	ot Classification i	Inder 40 CFR 437 (Prt.	aining to Pre-Trea	tment Requir	ements fo	or Centralized Waste Treatment
Facilities)	77 4020 114021	- Gladonioa (CHINICAL TO THE COLUMN	CINCIN NOWARD	*********	
		rial a wastewater complete this se	or wastewater sludg ction.	e?	Ε	YES	☑ NO
	PLEASE CHE	CK THE APPROPI	RIATE BOX. IF NO API	PROPRIATE CATEG	ORY, GO TO T	HE NEXT	PAGE.
	Metal finish Chromate w Air pollutior Spent anodi Incineration Waste liquic Cyanide-cor Waste acide Cleaning, rir Vibratory de Alkaline and Used oils Oil-water en Lubricants	roplating baths all ing rinse water a vastes in control blow do izing solutions in wastewaters if mercury talning wastes go and bases with a sing, and surfaceburring wastewal acid solutions u	nd sludges wn water and sludge reater than 136 mg/l or without metals e preparation solution ater sed to clean metal pa	ns from electroplat	ting or phosph	ating ope	erations
	Coolants						
			clean-up from petrole	um sources			
		eum products					
<u> </u>] Oil spill clea:] Bilge water	n-up					
-		waters from peti	oleum sources				

	interceptor wastes	
يًا	Off-specification fuels	
<u> </u>	Underground storage remediation waste	
<u> </u>	Tank clean-out from petroleum or oily sources Non-contact used glycols	
F	Aqueous and oil mixtures from parts cleaning operations	
Ť	Wastewater from oil bearing paint washes	
-		
Organics Su	<u>ubcategory</u> : Subpart C	
<u>آ</u>	Landfill leachate	
Ļ	Contaminated groundwater clean-up from non-petroleum sources	
Ļ	Solvent-bearing wastes	
<u> </u>	Off-specification organic product	
Ì	Still bottoms	
<u> </u>	Byproduct waste glycol □ Wastewater from paint washes	
ř	Wastewater from adhesives and/or epoxies formulation	
ī	Wastewater from organic chemical product operations	
Ť	Tank clean-out from organic, non-petroleum sources	
_		
(1)		
	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils	subcategory.
(2)		
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in con	centrations in
	excess of the values listed below, the waste should be classified in the metals subcategory.	
	Cadmium: 0.2 mg/L	
	Chromium: 8.9 mg/L	
	-	
	Copper: 4.9 mg/L	
	Nickel: 37.5 mg/L	
	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, or nickel above any of the values listed above, the waste should be classified in the organics subcategory Oils Subcategory Organics Subcategory	
SECTION 10	0 Additional Instructions	
Copper, Nic will be prior	not determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Caccel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concerto acceptance. The generator will be responsible for the cost of the analysis.	
	11: Generator's Certification	
	mation contained herein is based on 🔃 generator knowledge and/or 🔲 analytical data.	
	ertify that the above and attached description is complete and accurate to the best of	
	edge and ability to determine that no deliberate or willful omissions of compostion	
properties	s exist and that all known or suspected hazards have been disclosed. I certify that the	
materials t	tested are representative of all materials described by this document.	
Authorized	d Signature: Telden Sarpand	6/11/2009
Printed Na	ame/Title: Tilden Gaspard	
CEC DEE C	NAME A DO STORY THE COLORS	
CES USE OI	ONLY (DO NOT WRITE IN THIS SPACE)	
Campiter -	00 065 mm	
Compliance		
Date:	fo-15-09 Approved □ Rejected	
Approval N	Nurhber:	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$35/dm, \$85/cy
	\$275/load trans
2.	Contamination Limits (maximum limit before surcharges apply):
ı	Non-Conforming to profile
1	
3.	Surcharge Pricing:
	Call sales rep (Dan Bowman 713-854-6150)
-	
4.	Special Testing Requirements:
4.	
	None
_	m
5.	Treatment and Handling Protocol:
	recycle to maxia box
,	
6.	Treated Wastewater Discharge Subcategory:
J	
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

	NA
3.	Management for Declark December 100 and 100 and 110 an
	Management for Product Recovered/Recycled (if applicable);
	NA NA

PA-3378 National Oil Webco



Waste Pre-Acceptance/Approval Letter

Date 6/16/2009

Dear Tilden Gaspard

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3378

Expiration Date 6/16/2011

Generator: National Oilwell Varco

Address: 4310 N Sam Houston Pkwy E.

Houston, TX 77032

Waste Information

Name of Waste: Recyclable Antifreeze

TCEQ Waste Code #: Rec

Container Type:

Detailed Description of Process Generating Waste:

Antifreeze removed from portable generators

Color: Green to Red

Odor: None

pH: 5-10

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

DBI MM Rectile

CES Environmental Services, Inc.

CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone {713} 676-1460 Fax: {713} 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948 SECTION 1: Generator Information						CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585						
SECTION 1:			_									
Company:	-	Ollwell Varo						·····				
Address:		am Houston	Pkwy E.									
City:	Houston	<u> </u>		\$1	tate:	TX		__ Zip: _	·····			77032
Contact:	Tilden Ga					Title:		Managemer		······································		
Phone Num		713-482				Fax Numb	er:	713-482-069	99			
24/hr Phon		www.row.row.										
US EPA ID N		TXCESQ	G					***************************************				
State ID No	:	CESQG				SIC Code:						
SECTION 2: Company: Address:	Billing Inf	ormation -	☐ <u>Sar</u>	ne as Ab	<u>ove</u>						-	
City:		***************************************		S	tate:			Zip:	**************************************			***************************************
Contact:						Title:	-					
Phone Num	ber:		<u></u>	***************************************		Fax Numb	er:	M		• • · · · · · · · · · · · · · · · · · ·	·	
						•						
SECTION 3:	General D	Description of	of the Waste	1								
Name of Wa		Recyclat of Process G	ole Antifreez					···· <u>·································</u>				
Physical Sta		om portable Liquid Solid	generators		udge ilter Cake			Powder Combinatio	n			
Color:	Gren to R	ed				Odor:		None				
Specific Gra	vity (wate	r=1):	1-1.3					Density:	3.5-9 II	os/gal		
Does this m	aterial cor	ntain any to	tal phenolic	compou	nds?		Yes	2 1	Vo			
Does this m	aterial cor	ntain any pa	ra substitut	ed phen	olic comp	ounds?		☐ Y	es 🔽 N	lo		
								1, Subpart Fi		Yes	v	No
2812			is benzene i 2816									2024
				2819	2821		822		2824	2833		2834
2835			2841	2842	2843		844		2861	2865		2869
2873 3312			2876 4959	2879 9511	2891	2	892	2893	2896	2899		2911
Layers;	_	ingle-phase	J	Multi-pl	hase							
Container Ty	ype:	Drum	☐ Tote	☑ Tr	uck 🔲	Other (exp	olain)				
	Week	kly 🗹 Mon	ithly 🗌 Yo	early 🗔	One-Tir	me						

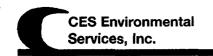
Is this a USEPA "Hazard If "Yes", then please co				Yes dous Constituen		No ched hereto		
If "Yes", Is it: [Characteristic for Toxic	D001 (Ignitab Metals:	le)		□ D006	D003 (Read	tive)	D009	
Characteristic for Toxic	Organics: D012							
is this an "F" or "K" List if "Yes", then please			?	Yes	☑	No		
Is this a commercial pro 40 CFR 261.33(e) or (f) If "Yes", then please	•	□ Y		l "U" or "P" was No NA	ste code un	der		
Texas State Waste Cod			Recyclable		····			
Proper US DOT Shippin Class: NA	g Name: UN/NA:	NA NA	PG:	NA .	RQ:	NA		
Flash Point	pl	4	Reacti	ve Sulfides	Reactive	Cyanides	Solid	s
>160	5-1	.0	0	mg/l	0	mg/i	0-3	%
Oil & Grease	TO	C		Zinc	Cop	per	Nick	el
Na <u>mg/i</u>	<30000	mg/l	0	<u>mg/l</u>	0	mg/l	0	mg/l
SECTION 4: Physical an	d Chemical Data				CONCENT	RATOIN		UNITS
· · · · · · · · · · · · · · · · · · ·	sists of the follo		als	6	Ranges are a		****	or %
	Water				50-6			%
Ethyle	ene Glycol (Antif	reeze)			40-9	50		%

					······································			
					······································			

	······································	·····						
				ı				- 1

		ted Data aste requires the use of special protective equipr	nent, please explain.	
	ments, note	upporting Documents s, data and/or analysis attached to this form as p None	art of the waste	
	Incompatib ALL incompat	illities Ibilities (if any):		
Laboratory	analysis of th	s Knowledge Documentation ne hazardous waste characteristics, listed below, ng generator knowledge:	WAS NOT PERFORMED	
TCLP Metal:	s:	CES Lab will test		
TCLP Volatil	es:	Na		······································
TCLP Semi-\	/olatiles:	Na		
Reactivity:		Na		
Corrosivity:		Na		
Ignitability:		Na		
SECTION 9: 1 Facilities)	is this mater	t Classification Under 40 CFR 437 (Prtaining to Pre-Tillar) Plain a wastewater or wastewater sludge? complete this section.	reatment Requirements fo	r Centralized Waste Treatment NO
	·	·		04.07
	PLEASE CHE	CK THE APPROPRIATE BOX. IF NO APPROPRIATE CAT	EGORY, GO TO THE NEXT	PAGE.
Olis Subcates	Metal finish Chromate w Air pollution Spent anodi: Incineration Waste liquid Cyanide-con Waste acids Cleaning, rin Vibratory de Alkaline and Used oils Oil-water en Lubricants	oplating baths and/or sludges ing rinse water and sludges astes control blow down water and sludges king solutions wastewaters i mercury talning wastes greater than 136 mg/l and bases with or without metals sing, and surface preparation solutions from electrol burring wastewater acid solutions used to clean metal parts or equipment		rations
	Used petrole Oil spill clear Bilge water	ed groundwater clean-up from petroleum sources eum products n-up waters from petroleum sources		

	Interceptor wastes
<u> </u> _	Off-specification fuels
<u> </u>	Underground storage remediation waste
<u> </u>	Tank clean-out from petroleum or oily sources
<u> </u>	Non-contact used glycois
<u> </u>	Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u> </u>	, wastewater from on bearing paint wasnes
Organics Sul	ocategory : Subpart C
	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bearing wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
<u></u>	Wastewater from adhesives and/or epoxies formulation
<u>_</u>	Wastewater from organic chemical product operations
<u> </u>	Tank clean-out from organic, non-petroleum sources
(1)	If the country is the self-self-self-self-self-self-self-self-
	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
/21	
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
	excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/L
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/L
	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Oils Subcategory Organics Subcategory
SECTION 10	Additional instructions
Copper, Nick	determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, el, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11	: Generator's Certification
	ntion contained herein is based on 🔃 generator knowledge and/or 🔲 analytical data.
	tify that the above and attached description is complete and accurate to the best of
= -	lge and ability to determine that no deliberate or willful omissions of compostion
	exist and that all known or suspected hazards have been disclosed. I certify that the
materials te	sted are representative of all materials described by this document.
Authorized	Signature: Date: 6/11/2009
Printed Nar	ne/Title: Tilden Gaspard
	mer copper
CEC LICE ON	LV ADD NOT HARITE IN THE COACE
CES USE UN	LY (DO NOT WRITE IN THIS SPACE)
	() (A) (A) (A)
Compliance	
Date:	6-15-09 ¹ Approved Rejected
Approval Nu	ımber:
•	



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	.25/gal bulk, \$150/tote (include the tote exchange)
	\$275/load trans
ı	
2.	Contamination Limits (maximum limit before surcharges apply):
ı	Non-Conforming to profile
	Non-Comorning to prome
l	
3.	Surcharge Pricing:
١.	
	Call sales rep (Dan Bowman 713-854-6150)
4.	Special Testing Requirements:
	% Glycol
	,
5.	Treatment and Handling Protocol:
	Sell with other glycols-should be at least 50%
	g., v v v v v v v v.
6.	Treated Wastewater Discharge Subcategory:
٠.	TO STATE TO A STATE OF THE STAT
	Subsections A. Subsection B. Subsection C.
	Subcategory A Subcategory B Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
	NA
8.	Management for Product Recovered/Recycled (if applicable);
	NA

pH: 0-1



Material / Product Approval Letter

Date 6/17/2009

Dear Kate Alexander

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3379

Expiration Date 6/17/2011

Producer: Arkema, Inc - Crosby

Address: 18000 Crosby Eastgate Road

Crosby, TX 77532

Material / Product Information

Name of Material / Product Spent sulfuric acid

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Spent sulfuric acid used in the catalysis reaction for organic peroxide production

Color: amber Odor: characteristic

Physical State:

Incompatibilities: Avoid contact with carbides, chlorates, nitrates, powdered metals

and other hazardous combustible materials

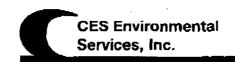
Safety Related Data/Special Handling:

See MSDS

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



☐ CES Environmental Services - Houston Facility



☑ CES Environmental Services - Port Arthur Facility

Phone: (713) 676-14 TCEQ Industrial Se	Houston, TX 77021 2420 S. Gulfway Drive, Port Arthur, TX 77641 460 Fax: (713) 676-1676 Phone: (713) 676-1460 Fax: (713) 676-16 folid Waste Permit No: 30948 U.S. EPA ID No: TXR000079307 ISWR No: 88585 XD008950461 ISWR No: 30900
	erial Producer Information
Company:	Arkema
Address:	18000 Crosby Eastgate Road
City, State, Zip:	Crosby, TX 77532
Contact:	Kate Alexander Title: Environmental Engineer
Phone No:	281-328-9430 Fax No: 281-328-9465
24/hr Phone:	830-556-1636 TMD04-256510
U.S. EPA I.D. No:	TXD043750512
State I.D.	30458 SIC Code:
Company: Address:	ng Information – 🔀 Same as Above
City, State, Zip:	
Contact:	Title:
Phone No:	Fax No:
Name of Material /	eral Description of the Material / Product Product: Spent Sulfuric Acid on of Process Generating or Producing the Material / Product: Spent Sulfuric acid used in the catalysis
Name of Material / Detailed Description reaction for organic p	Product: Spent Sulfuric Acid on of Process Generating or Producing the Material / Product: Spent Sulfuric acid used in the catalysis peroxide production Liquid
Name of Material / Detailed Description eaction for organic (Product: Spent Sulfuric Acid on of Process Generating or Producing the Material / Product: Spent Sulfuric acid used in the catalysis peroxide production
Name of Material / Detailed Description reaction for organic p Physical State:	Product: Spent Sulfuric Acid on of Process Generating or Producing the Material / Product: Spent Sulfuric acid used in the catalysis peroxide production Liquid
Name of Material / Detailed Description reaction for organic p Physical State: Color: amber	Product: Spent Sulfuric Acid on of Process Generating or Producing the Material / Product: Spent Sulfuric acid used in the catalysis peroxide production Liquid
Name of Material / Detailed Description reaction for organic p Physical State: Color: amber Specific Gravity (was	Product: Spent Sulfuric Acid on of Process Generating or Producing the Material / Product: Spent Sulfuric acid used in the catalysis peroxide production Liquid
Name of Material / Detailed Description reaction for organic p Physical State: Color: amber Specific Gravity (was Does this material of	Product: Spent Sulfuric Acid on of Process Generating or Producing the Material / Product: Spent Sulfuric acid used in the catalysis peroxide production Liquid
Name of Material / Detailed Description reaction for organic p Physical State: Color: aimber Specific Gravity (was Does this material of	Product: Spent Sulfuric Acid on of Process Generating or Producing the Material / Product: Spent Sulfuric acid used in the catalysis peroxide production Liquid
Name of Material / Detailed Description reaction for organic p Physical State: Color: amber Specific Gravity (was Does this material of Layers: Container Type:	Product: Spent Sulfuric Acid on of Process Generating or Producing the Material / Product: Spent Sulfuric acid used in the catalysis peroxide production Liquid
Name of Material / Detailed Description reaction for organic p Physical State: Color: amber Specific Gravity (was Does this material of Layers: Container Type: Container Size:	Product: Spent Sulfuric Acid on of Process Generating or Producing the Material / Product: Spent Sulfuric acid used in the catalysis peroxide production Liquid
Name of Material / Detailed Description eaction for organic p Physical State: Color: amber Specific Gravity (was Does this material of Layers: Container Type: Container Size:	Product: Spent Sulfuric Acid on of Process Generating or Producing the Material / Product: Spent Sulfuric acid used in the catalysis peroxide production Liquid
Name of Material / Detailed Description reaction for organic p Physical State: Color: amber Specific Gravity (w) Does this material of Layers: Container Type: Container Size: Frequency:	Product: Spent Sulfuric Acid on of Process Generating or Producing the Material / Product: Spent Sulfuric acid used in the catalysis peroxide production Liquid
Name of Material / Detailed Description reaction for organic p Physical State: Color: amber Specific Gravity (was Does this material of	Product: Spent Sulfuric Acid on of Process Generating or Producing the Material / Product: Spent Sulfuric acid used in the catalysis peroxide production Liquid

PAGE 02/04

YEKEWA INC

2813284025

11/10/2008 10:32

Flash Point	рН	N/A	N/A	Solids
>73 deg F	0-1			%
Oil&Grease	TOC	Zinc	Copper	Nickel
<1500mg/l	30-80,000mg/l	<u>0-2</u> mg/l	0-2mg/l	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Sulfuric Acid	45-58	%
Water	20-40	%
Isobutylene -	1-3	%
t-Butyl alcohol or t-amyl alcohol	5-7	%
Isobutylene or Isoamylene	1-3	%
see additional components table attached		

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain. see made

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. msds, analytical

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

avoid contact with carbides, chlorates, nitrates, powdered metals and other hazardous combustible materials

SECTION 8: Material Producer's Certification

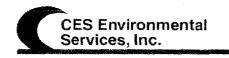
The information contained herein is based on square generator knowledge and/or square and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:

Date:

Printed Name/Title: Kate Alexander, Environmental Engineer			
CES USE ONLY (DO NOT WRITE IN THIS SPACE)			
Technical Manager: Polymer Private Private			
Date: Approved Rejected			
Approval Number:			

ges are acceptable	or %
	%
	%
*	%
	%
-	
	ges are acceptable



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
Charap 180.20/gal FOB PACES
2. Contamination Limit (maximum limit before surchages apply):
Must meet sproduct spent sulfuric acid specifications as mobilined in Section 7.
3. Surcharge Pricing:
Any deviation from product specification require prior approval and pricing before acceptance at facility.
4. Special Testing Requirements:
See Section 7
5. Treatment and Handling Protocol: See Section 8
6. Treated Wastewater Discharge Subcategory:
Subcategory A Subcategory B Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

Measure % sulfuric acid by S.g.
1/3 nal inspection for solids, color, clarity, o dor. Must breet
product spent acid specifications as seen on attached table.

8. Management for Product Recovered/Recycled (if applicable)

Unload to souldwrik reid feedstock tank for use in Nash production.



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Joy Baker Date: 11/05/08

Cc: Matt Bowman, Gary Peterson, Prabhaker,

Matt Moser, Joe Camp, Bo Cumberland, Chris Saylor

Brian Weathers

From: Miles Root Lab Memo: 08-193

Subject: Arkema, Crosby Evaluation 1108-13

A sample of sulfuric acid from Arkema, Crosby has been evaluated for use at CES Port Arthur. This sample is evaluation 1108-13. Overall, this acid looks okay for use in our acidification process.

The density of this sample is 1.357, which equates to an approximate concentration of 46% sulfuric acid. This sulfuric acid may contain a few alcohols and peroxides, as it comes from an organic peroxide production operation. This only adds to the TOC value and will not affect its usefulness to CES.

This sample is medium amber in appearance and contains no layers, solids or sludge. The TOC on this sample is 67,350. Metals are acceptable. A reaction with caustic shows a typical acid base reaction with no abnormalities.

Remember that this acid will be used in a reaction vessel that typically uses around 91% acid strength. Doubling the amount typically used will be needed to produce the same results. Operations wise, a little less feed to accommodate the extra space will be needed. The high TOC, if it is an issue, will be diluted down by at least a factor of 10 in a typical acidification process at CES Port Arthur. I don't see anything chemically wise that would prevent us from using this source.

The table below summarizes the analytical testing.

Arkema Crosby			
Evaluation 1108-13			
Density	1.357		
%Sulfuric Acid, by density	46		
Solids, vol%	0		
TOC, mg/L	67,350		
Oil, vol%	0		
Caustic Reaction	OK		
Metals, ppm			
Ni	1.062		
Zn	1.047		
Cu	0.157		
Cd	0.000		
Cr	0.000		



Material Safety Data Sheet

Arkema Inc.

1 PRODUCT AND COMPANY IDENTIFICATION

Functional Additives

2000 Market Street

21st Floor

Philadelphia, PA 19103-3222

Information Telephone Numbers

Customer Service Number

EMERGENCY PHONE NUMBERS:

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

Medical: Rocky Mountain Poison Control Center

(866) 767-5089 (24Hrs)

Phone Number

Available Hrs

(800) 331-7654

8:00 AM - 5:00 PM EST

Product Name

Product Synonym(s)

SPENT SULFURIC ACID

21-- 1 1 m 11

Chemical Family

Acid

Chemical Formula

H2SO4

Chemical Name

Sulfuric Acid Solution

EPA Reg Num Product Use

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical %	OSHA
Sulfuric acid	7664-93-9	45-58% By Wt.	Υ
-> Isobutylene should be 1-3%.	115-11-7	20-31%)By Wt.	Υ
Water	7732-18-5	15-25% By Wt.	Y
t-Butyl alcohol	75-65-0	5-7% By Wt.	Υ
2-Methyl-2-butanol	75-85-4	5-7% By Wt.	Υ
tert-Butyl hydroperoxide	75-91-2	< 1% By Wt.	Υ
Di-tert-butyl peroxide	110-05-4	< 1% By Wt.	Υ
Acetone	67-64-1	< 1% By Wt.	Υ

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

This material is classified as hazardous under Federal OSHA regulation.

The Components of this product are either on the TSCA Inventory list or exempt as impurities.

3 HAZARDS IDENTIFICATION

Emergency Overview

Brown liquid, strong odor

DANGER!

CAUSES EYE, SKIN AND RESPIRATORY TRACT BURNS. MAY CAUSE BLINDNESS.

CAUSES DIGESTIVE TRACT BURNS.

FLAMMABLE LIQUID AND VAPOR.

CONTAINS SULFURIC ACID:

CANCER HAZARD. INHALATION OF MISTS CAN CAUSE CANCER

Risk of cancer depends on duration and level of exposure

CAN CAUSE LUNG INJURY

Product Code: 999008

Revision: 3

Issued:02 JAN 2007

Page 1 o

ARKEMA

SPENT SULFURIC ACID

Material Safety Data Sheet

Arkema Inc.

Flash Point Method

Potential Health Effects

4 FIRST AID MEASURES

IN CASE OF CONTACT, immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

IF SWALLOWED, do NOT induce vomiting. Give water to drink. Get medical attention immediately. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

5 FIRE FIGHTING MEASURES

Fire and Explosive Properties

Auto-Ignition Temperature

NE

Flash Point

>73 F

Flammable Limits- Upper

er NE

Lower NE

Extinguishing Media

Use water spray or other suitable agent for fires adjacent to non-leaking tanks or other containers of sulfuric acid. Avoid spraying water into containers. If only a small amount of combustibles is present, smother fire with dry chemical.

Fire Fighting Instructions

Do NOT use a solid stream of water. A solid stream of water can spread fire. Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

Fire and Explosion Hazards

Forms hydrogen chloride when contacted with water.

6 ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Small spills: soak up with an inert absorbent. Scoop up and place in a clean, dry container. Consult with environmental engineer or professional to determine if neutralization is appropriate and for handling procedures for residual materials.

Large spills: Pump into marked containers for disposal or reclamation. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

7 HANDLING AND STORAGE

Product Code: 999008 Revision: 3 Issued:02 JAN 2007 Page 2 of 8



Material Safety Data Sheet

Arkema Inc.

7 HANDLING AND STORAGE

Handling

Do not get in eyes, on skin or on clothing. Do not breathe vapor. Do not taste or swallow. Keep away from heat, sparks and flames. Keep container closed.
Use only with adequate ventilation.

Wash thoroughly after handling.

CONTAINED HAZARDOUS WHEN EMPTY Emptied container retains year.

CONTAINER HAZARDOUS WHEN EMPTY. Emptied container retains vapor and product residue. Follow labeled warnings even after container is emptied. RESIDUAL VAPORS MAY EXPLODE ON IGNITION. DO NOT CUT, DRILL GRIND OR WELD ON OR NEAR THIS CONTAINER. Improper disposal or reuse of this container may be dangerous and/or illegal.

Storage

Avoid excessive heat. Store out of direct sunlight in a cool, well-ventilated place. Do NOT store near strong bases.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation if necessary to control exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

Eye / Face Protection

Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.

Skin Protection

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Wear chemical goggles, a face shield, and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing promptly and wash before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash skin thoroughly after handling.

Respiratory Protection

Avoid breathing vapor or mist. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and chemical goggles. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Other Protective Equipment

Rubber boots, Apron and Chemical resistant protective clothing.

Airborne Exposure Guidelines for Ingredients

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Material Safety Data Sheet

Arkema Inc.

Exposure Limit		Value
Acetone		
ACGIH STEL	-	750 ppm (1782 mg/m3)
ACGIH TWA	-	500 ppm (1188 mg/m3)
OSHA TWA PEL	-	1000 ppm (2400 mg/m3)
Sulfuric acid		
ACGIH TWA	-	0.2 mg/m3
OSHA TWA PEL	-	1 mg/m3
t-Butyl alcohol		
ACGIH TWA	-	100 ppm
OSHA TWA PEL	-	100 ppm (300 mg/m3)

⁻Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor	Brown liquid, strong odor	
pН	NE	
Specific Gravity	1.33	
Vapor Pressure	NE	
Vapor Density	NE	
Melting Point	NE	
Freezing Point	NE	
Boiling Point	NE	
Solubility In Water	NE	

10 STABILITY AND REACTIVITY

Stability

This material is chemically stable under normal and anticipated storage and handling conditions.

Hazardous Polymerization

Does not occur.

Incompatibility

Avoid contact with many materials, particularly carbides, chlorates, nitrates, powdered metals and other combustible materials. May release flammable hydrogen gas.

Hazardous Decomposition Products

Forms hydrogen chloride gas when contacted with water.

11 TOXICOLOGICAL INFORMATION

Toxicological Information

Data on this material and/or its components are summarized below.

Product Code: 999008 Revision: 3 Issued:02 JAN 2007 of 8

⁻ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.
-WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.



Material Safety Data Sheet

Arkema Inc.

11 TOXICOLOGICAL INFORMATION

Sulfuric Acid

Single exposure (acute) studies indicate that this material is slightly toxic if swallowed (rat LD50 2,140 mg/kg), moderately toxic if inhaled (rat 4-hr LC50 0.5 mg/l) and corrosive to rabbit eyes and skin.

Studies in humans show that this material is irritating to the upper respiratory tract and lungs with coughing, sore throat, chest pain and reduced pulmonary function in asthmatic subjects. No birth defects were noted in the offspring of mice or rabbits exposed by inhalation during pregnancy. The International Agency for Research on Cancer (IARC) has classified strong inorganic acid mists containing sulfuric acid as a known human carcinogen (Group 1). Genetic changes were observed in tests using animal cells, but not in bacteria. Both positive and negative responses have been reported in tests using yeast.

t-Butyl alcohol

Single exposure (acute) studies indicate that this material is slightly toxic if swallowed (rat LD50 3,500 mg/kg), practically non-toxic if inhaled (rat 7-hr LC50 >15 to <30 mg/l) and non-irritating to rabbit skin.

This material is non-sensitizing and non-irritating to human skin, but is severely irritating to the eyes. Ingestion or inhalation of large amounts can result in narcosis and central nervous system depression, possibly leading to death. Repeated inhalation and oral exposures produced effects similar to those seen in long-term studies using rats and mice. Following long-term exposure in the drinking water, no notable tumor increases were found in rats and mice, other than a slight increase in kidney tumors seen in male rats. The significance of this finding is uncertain since hydrocarbon nephropathy and an increase in kidney tumors have been shown to result from a mechanism unique to male rats. Rats showed effects on the liver, kidney and urinary bladders, while mice showed proliferative changes in the thyroid. Oral administration or inhalation exposure of pregnant rats resulted in no significant reproductive or teratogenic effects even at doses that caused maternal toxicity. No teratogenic or fetotoxic effects were seen in pregnant mice exposed to high oral doses. No genetic changes were observed in tests using bacteria, animal cells or animals.

2-Methyl-2-butanol

Single exposure (acute) studies indicate that this material is slightly toxic if swallowed (rat LD50 1,000 mg/kg) or absorbed through skin (rabbit LD50 1,720 mg/kg), practically non-toxic if inhaled (rat 6-hr LC50 >3,000 ppm), non-irritating to rabbit skin (non-occluded) and severely irritating to rabbit eyes.

No skin allergy was observed in guinea pigs following repeated exposure. Following repeated inhalation exposure in rats, mice and dogs, no treatment related effects were seen in mice. Excessive tearing and signs of central nervous system (CNS) depression were noted in both rats and dogs. Liver effects were noted in male rats and dogs. No genetic changes were observed in tests using bacteria, yeast, animal cells or human cells.

12 ECOLOGICAL INFORMATION

Ecotoxicological Information

Data on this material and/or its components are summarized below.

Sulfuric Acid

This material is slightly toxic to mosquito fish and bluegill sunfish (LC50 42-49 mg/l), shrimp (LC50 60-90 mg/l), zebra fish (24-hr LC50 82 mg/l) and Daphnia magna (24-hr EC50 29 mg/l). It is practically non-toxic to flounder (LC50 100-330 mg/l).

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Material Safety Data Sheet

Arkema Inc.

12 ECOLOGICAL INFORMATION

t-Butyl alcohol

This material is generally non-toxic to aquatic organisms. Acute LC50 values for freshwater fish range from 3,000-6,400 mg/l, while acute values for invertebrates are greater than 5,000 mg/l. The EC50 value for green algae is 24,000 mg/l.

2-Methyl-2-butanol

This material is practically non-toxic to Daphnia magna (24-hr LC50 4,030 mg/l). The toxicity threshold was determined to be 410 mg/l for bacteria and 1,250 mg/l for green algae.

Chemical Fate Information

Data on this material and/or its components are summarized below.

t-Butyl alcohol

Based on its volatility and water solubility, this material is expected to disperse rapidly in the environment. In addition, it is likely to be moderately susceptible to biodegradation. It is not expected to bioaccumulate or bioconcentrate.

2-Methyl-2-butanol

This material is readily biodegradable (>70% biodegradable - Zahn-Wellens).

13 DISPOSAL CONSIDERATIONS

Waste Disposal

Incineration is the recommended method for disposal observing all local, state and federal regulations.

14 TRANSPORT INFORMATION

DOT Name

Sulfuric acid, spent

DOT Technical Name

DOT Hazard Class

8

UN Number

UN 1832

DOT Packing Group

PG II

RQ

Sulfuric acid = 1000 lbs.

DOT Special Information

Add subsidiary flammable label

15 REGULATORY INFORMATION

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate (Acute) Health Y

Fire

Υ

Delayed (Chronic) Health Y

Reactive

N N

Sudden Release of Pressure

The components of this product are either on the TSCA Inventory list or exempt as impurities.

Ingredient Related Regulatory Information:

Product Code: 999008

Revision: 3

Issued: 02 JAN 2007

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Material Safety Data Sheet

Arkema Inc.

SARA Reportable Quantities	CERCLA RQ	SARA TPQ
Acetone	5000 LBS	
Sulfuric acid	1000 LBS	1000 LBS
Water	NE	
Di-tert-butyl peroxide	NE	NE
t-Butyl alcohol	NE	NE
2-Methyl-2-butanol	100 LBS	
tert-Butyl hydroperoxide	NE	NE
Isobutylene	100 LBS	

SARA Title III, Section 313

This product does contain chemical(s) which are defined as toxic chemicals under and subject to the reporting requirements of, Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. See Section 2

Sulfuric acid

t-Butyl alcohol

SARA Title III, Section 302

This product does contain chemical(s), as indicated below, currently on the Extremly Hazardous Substance List, Section 302, SARA Title III. See Section 2 for further details regarding concentrations and registry numbers.

Sulfuric acid

DEA - precursor element

This product does contain the following chemical(s), as indicated below, currrently on the DEA Final Precursors and Essential Chemicals Listed Components list.

Acetone

Sulfuric acid

California Prop 65 - Carcinogen

This product does contain the following chemical(s), as indicated below, currently on the California list of Known Carcinogens.

Sulfuric acid

Massachusetts Right to Know

This product does contain the following chemicals(s), as indicated below, currently on the Massachusetts Right to Know Substance List.

2-Methyl-2-butanol

Acetone

Di-tert-butyl peroxide

Isobutylene

Sulfuric acid

t-Butyl alcohol

tert-Butyl hydroperoxide

New Jersey Right to Know

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List.

2-Methyl-2-butanol

Acetone

Di-tert-butyl peroxide

Isobutylene

Sulfuric acid

t-Butyl alcohol

tert-Butyl hydroperoxide

Pennsylvania Environmental Hazard

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard List.

Acetone

Sulfuric acid

Product Code: 999008 Revision: 3 Issued: 02 JAN 2007 Page 7 of 8



Material Safety Data Sheet

Arkema Inc.

Pennsylvania Environmental Hazard

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard List. t-Butyl alcohol

Pennsylvania Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List. 2-Methyl-2-butanol

Acetone

Di-tert-butyl peroxide

Isobutylene

Sulfuric acid

t-Butyl alcohol

tert-Butyl hydroperoxide

16 OTHER INFORMATION

Revision Information

Revision Date

02 JAN 2007

Revision Number 3

Supercedes Revision Dated

02-JAN-2007

Revision Summary

This product has been moved to the Functional Additives business unit.

Key

NE Not Established NA Not Applicable (R) = Registered Trademark

Arkema Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of Arkema Inc., Arkema Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

Product Code: 999008 Revision: 3 Issued: 02 JAN 2007 Page 8 of 8

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pent Acid

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Printed: 09/03/2008

Page 1 of 5

Account

Project

ARKE-G

410597

Report To

Kate Alexander Arkema Inc. 18000 Crosby Eastgate Rd. Crosby, TX 77532

Results

credited	Parameter	Results	Units	RL	Flags	CAS		Bottle
28948	Waste Stream SSA					Re	ceived: 08	3/22/2008
Liqui	d Aqueous	Collected by: K Ale	xander Affi	liation	Arkema Inc.		08/21/200	8 13:45
ASTI	M D 2015		Analyzed:	RDH	08/23/2008	1130	QCgroup	285855
I	Heating Value	439	BTU/lb	100				02
ASTI	M D3505 MOD		Analyzed:	MKV	08/26/2008	1130	QCgroup	286137
	Density	1.3585	g/cc					01
EPA	6020		Analyzed:	WOB	08/27/2008	1801	QCgroup	286386
7	TCLP Arsenic	0.0860	mg/L	0.010	0	7440-3	38-2	10
r	TCLP Barium	0.0164	mg/L	0.005	00	7440-3	39-3	10
7	TCLP Cadmium	ND	mg/L	0.005	00	7440-	13-9	10
1	TCLP Chromium	2.67	mg/L	0.005	00	7440-	17- 3	10
V	TCLP Lead	ND	mg/L	0.005	00	7439-	92-1	10
V	TCLP Selenium	ND	mg/L	0.010	0	7782-	19-2	10
V	TCLP Silver	ND	mg/L	0.005		7440-	22-4	10
EPA	1010A	· · · · · · · · · · · · · · · · · · ·	Analyzed:	RED	08/25/2008	0930	QCgroup	285980
V	Flash Point (Reg. Limit 140.0 F)	<56	Degrees F	140				02
EPA	7470A		Analyzed:	НУМ	08/27/2008		QCgroup	286337
I	TCLP Mercury	ND	mg/L	0.001	50	7439-	97-6	11
EPA	9040C		Analyzed:	MKV	08/29/2008	1310	QCgroup	286687
I	Laboratory pH	<2 @ 15C	SU					01
EPA	9056		Analyzed:	GDG	08/22/2008	1352	QCgroup	285983
V	Chloride	1250	mg/L	300				01
I	Fluoride	ND	mg/L	100				01
V	Ortho-phosphate as P	39.0	mg/L	10.0				01
EPA	Method 8270C		Analyzed:	LCY	08/30/2008	1943	QCgroup	286970
√ .	Acenaphthene	ND	ug/L	99900)	83-32	-9	14
V	Acenaphthylene	ND	ug/L	20000	00	208-9	6-8	14
٧	Anthracene	ND	ug/L	99900)	120-1	2-7	14
V	Benzidine	ND	ug/L	9990		92-87	-5	14
7	Benzo(a)anthracene	ND	ug/L	99900)	56-55	-3	14
V	Benzo(a)pyrene	ND	ug/L	99900		50-32		14
ı I	Benzo(b)fluoranthene	ND	ug/L	30000		205-9	-	14
/	Benzo(ghi)perylene	ND	ug/L	99900		191-2		14
, J	Benzo(k)fluoranthene	ND	ug/L ug/L	99900		207-0		14
v V	Benzyl Butyl phthalate	ND ND	-	39900		85-68		14
v V	4-Bromophenyl phenyl ether	NĐ NĐ	ug/L					
v V			ug/L	99900		101-5		14
	Di-n-butylphthalate	ND	ug/L	UUUUI	X)	84-74	- /	14

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Account

Project

ARKE-G

410597

Kate Alexander Arkema Inc.

Report To

18000 Crosby Eastgate Rd. Crosby, TX 77532

Results

ccredited	Parameter	Results	Units		RL	Flags	CAS		Bottle
028948	Waste Stream SSA						Rec	eived:	08/22/200
Liqui	id Aqueous	Collected by:	K Alexander	Affili	ation:	Arkema Inc.		08/21/2	008 13:45
EPA	Method 8270C			Analyzed:	LCY	08/30/2008	1943	QCgroup	286970
4N	Indeno(1,2,3-cd)pyrene	ND	ug/L	•	99900		193-39-	5	14
4N	Bis(2-chloroethoxy)methane	ND	ug/L		120000	ŀ	111-91-	l	14
4N	Bis(2-chioroethyl)ether	ND	ug/L		99900		111-44-	4	14
4N	Bis(2-chloroisopropyl)ether	ND	ug/L		120000	•	108-60-	1	14
4N	2-Chloronaphthalene	ND	ug/L		120000	•	91-58-7		14
4N	2-Chlorophenol	ND	ug/L		99900		95-57-8		14
4N	4-Chlorophenyl phenyl ethe	ND	ug/L		99900		7005-72	-3	14
4N	Chrysene	ND	ug/L		99900		218-01-	9	14
4N	Dibenz(a,h)anthracene	ND	ug/L		99900		53-70-3		14
4N	1,3-Dichlorobenzene	ND	ug/L		250000)	541-73-	Ī	14
4N	1,2-Dichlorobenzene	ND	ug/L		250000)	95-50-1		14
4N	1,4-Dichlorobenzene	ND	ug/L		250000)	106-46-	7	14
4N	3,3'-Dichlorobenzidine	ND	ug/L		648000)	91-94-1		14
4N	2,4-Dichlorophenol	ND	ug/L		99900		120-83-	2	14
4N	2,6-Dichlorophenol	ND	ug/L		99900		87-65-0		14
4N	Diethyl phthalate	ND	ug/L		99900		84-66-2		14
4N	Dimethyl phthalate	ND	ug/L		99900		131-11-	3	14
1 V	2,4-Dimethylphenol	ND	ug/L		99900		105-67-	9	14
1N	2,4-Dinitrophenol	ND	ug/L		300000	ı	51-28-5		14
4N	2,4-Dinitrotoluene	ND	ug/L		99900		121-14-	2	14
4N	2,6-Dinitrotoluene	ND	ug/L		99900		606-20-	2	14
1N	1,2-DPH (as azobenzene)	ND	ug/L		99900		122-66-	7	14
1N	Bis(2-ethylhexyl)phthalate	ND	ug/L		750000	1	117-81-	7	14
i N	Fluoranthene	ND	ug/L		99900		206-44-	0	14
1N	Fluorene	ND	ug/L		99900		86-73-7		14
I V	Hexachlorobenzene	ND	ug/L		99900		118-74-	l	14
I V	Hexachlorobutadiene	ND	ug/L		99900		87-68-3		14
i N	Hexachlorocyclopentadiene	ND	ug/L		498000)	77-47-4		14
i N	Hexachloroethane	ND	ug/L		300000	1	67-72-1		14
I N	Isophorone	ND	ug/L		99900		78-59-1		14
IN	p-Chloro-m-Cresol (4-Chloro-3-me	ND	ug/L		99900		59-50-7		14
I N	4,6-Dinitro-2-methylphenol	ND	ug/L		200000	1	534-52-	i	14
N	Naphthalene	ND	ug/L		99900		91-20-3		14
IN	Nitrobenzene	ND	ug/L		99900		98-95-3		14
I N	2-Nitrophenol	ND	ug/L		120000	•	88-75-5		14
₩	4-Nitrophenol	ND	ug/L	•	99900		100-02-		14
(N	N-Nitrosodimethylamine	ND	ug/L		99900		62-75-9		14
!N	N-Nitrosodiphenylamine (as DPA	ND	ug/L		120000		86-30-6		14
W	Di-n-octylphthalate	ND	ug/L		99900		117-84-	1	14

Corporate Shipping: 2600 Dudley Rd, Kilgore, TX 75662

Gulf Coast Region: 18096 Kings Row Ste H Houston TX 77058





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ARKE-G

410597

Report To Kate Alexander Arkema Inc.

THE COMPLETE SERVICE LAB

18000 Crosby Eastgate Rd.

Crosby, TX 77532

Results

ccredited	Parameter	Results	Units	RL	Flags	CAS		Bottle
028948	Waste Stream SSA					Red	ceived: 0	3/22/2008
Liqu	nid Aqueous	Collected by:	K Alexander A	ffiliation:	Arkema inc.		08/21/200	08 13:45
EPA	A Method 8270C		Analy	ed: LCY	08/30/2008	1943	QCgroup	286970
4N	Pentachlorophenol	ND	ug/L	99900)	87-86-5	5	14
4N	Phenanthrene	ND	ug/L	99900)	85-01-0)8	14
4N	Phenol	ND	ug/L	12000	00	108-95	-2	14
4N	N-Nitrosodi-n-propylamine	ND	ug/L	99900)	621-64	-7	14
4N	Pyrene	ND	ug/L	99900	· ·	129-00-	-0	14
4N	1,2,4-Trichlorobenzene	ND	ug/L	99900)	120-82-	-1	14
4 N	2,4,6-Trichlorophenol	ND	ug/L	99900)	88-06-2	2	14
IV	2,4,5-Trichlorophenol	ND	ug/L	99900)	95-95-4	1	14
SM	2310 B, (4a) 20th	· 	Analyz	ed: RED	09/02/2008	0715	QCgroup	286894
4N	Acidity	13400000	uEq/L	50000)			01
SM	2540 G, 20th Ed.		Analy	ed: AAT	08/25/2008	1450	QCgroup	286019
4N	Total Solids	56.5	%	0.1				01
SM2	2540G		Analyz	ed: AAT	08/25/2008	1450	QCgroup	286019
4N	Moisture * Dry Weight Basis	43.5	%	0.1				01

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Account

Project

ARKE-G

412866

Kate Alexander Arkema Inc. 18000 Crosby Eastgate Rd.

Crosby, TX 77532

Results

ccredited	Parameter	Results	Units	RL	Flags	CAS	Bottl
034007	Spent Sulfuric Acid					Received	!: 09/11/200
Liqui	id Aqueous	Collected by: Client		Affiliation:	Arkema Inc.	09/	09/2008 12:00
EPA	Method 8260B			Analyzed: JLH	09/12/2008	1544 QCg	roup 288550
₽ V	Acrolein	ND	ug/L	1500		107-02-8	01
£V.	Acrylonitrile	ND	ug/L	500		107-13-1	01
i N	Benzene	ND	ug/L	500		71-43-2	01
I N	Bromobenzene	ND	ug/L	500		108-86-1	01
<u>I</u> N	Bromochloromethane	ND	ug/L	500		74-97-5	01
I N	Bromodichloromethane	ND	ug/L	500		75-27-4	01
I V	Bromoform	ND s	ug/L	500		75-25-2	01
I V	Bromomethane (Methyl Bromi	ND X	ug/L	500		74-83-9	01
N	tert-Butylbenzene	ND O	ug/L	500		98-06-6	01
N.	sec-Butylbenzene	ND , 7 30 'Y	ug/L	500		135-98-8	01
I N	n-Butylbenzene	ND OQ'	ug/L	500		104-51-8	01
I N	tert-Butylmethylether (MTBE)	3040	ug/L	500		1634-04-4	01
N.	Carbon Tetrachloride	ND	ug/L	500		56-23-5	01
IN .	Chlorobenzene	ND	ug/L	500		108-90-7	01
N	Chloroethane	ND	ug/L	500		75-00-3	01
N	2-Chloroethylvinyl ether	ND	ug/L	500		110-75-8	01
N	Chloroform	ND	ug/L	500		67-66-3	01
N	Chloromethane	ND	ug/L	500		74-87-3	01
₩	1,2-Dibromo-3-chloropropane	ND	ug/L	500		96-12-8	10
N	2-Chlorotoluene	ND	ug/L	500		95-49-8	01
W	4-Chlorotoluene	ND	ug/L	500		106-43-4	01
W	Dibromochloromethane	ND	ug/L	500		124-48- 1	01
W	1,2-Dibromoethane	ND	ug/L	500		106-93-4	01
W	Dibromomethane	ND	ug/L	500		74-95-3	01
N	1,3-Dichlorobenzene	ND	ug/L	500		541-73-1	01
N	1,2-Dichlorobenzene	ND	ug/L	500		95-50-1	01
N	1,4-Dichlorobenzene	ND	ug/L	500		106-46-7	01
N	Dichlorodifluoromethane	ND	ug/L	500		75-71-8	01
N	1,1-Dichloroethane	ND	ug/L	500		75-34-3	01
N	1,2-Dichloroethane	ND	ug/L	500		107-06-2	01
N	trans-1,2-Dichloroethene	ND	ug/L	500		156-60-5	01
N	cis-1,2-Dichloroethene	ND	ug/L	500		156-59-2	01
N	1,1-Dichloroethylene	ND	ug/L	500		75-35-4	01
N	1,2-Dichloropropane	ND	ug/L	500		78-87-5	01
N	2,2-Dichloropropane	ND	ug/L	500		594-20-7	01
N	1,3-Dichloropropane	ND	ug/L	500		142-28-9	01
N	cis-1,3-Dichloropropene	ND	ug/L	500		10061-01-5	01
N	trans-1,3-Dichloropropene	ND	ug/L	500		10061-02-6	01

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

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NELAP-accredited #T104704201-08-TX

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Page 2 of 4

Account

Project

ARKE-G

412866

Kate Alexander Arkema Inc. 18000 Crosby Eastgate Rd.

Crosby, TX 77532

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к	es	11	ITS

034007	Spent Sulfuric Acid					Re	ceived:	09/11/2008
	Aqueous Collected by: Client			Affiliation:	Arkema Inc.		09/09/2	
FPA	Method 8260B		Ana	ılyzed: JLH	09/12/2008	1544	QCgroup	288550
en Z. 7.	1,1-Dichloropropene	ND	ug/L	500		563-58	-6	01
4N	Ethylbenzene	ND	ug/L	500		100-41	-4	01
4V	Hexachlorobutadiene	ND	ug/L	500		87-68-3	3	01
4N	Isopropylbenzene (Cumene)	ND	ug/L	500		98-82-8	8	01
4N	p-isopropyitoluene	ND	ug/L	500		99-87-6	6	01
4N	Methyl ethyl ketone (Butanone)	22500	ug/L	2500		78-93-3	3	01
AN	Methyl Isobutyl Ketone	630	ug/L	500		108-10	-1	01
4N	Methylene chloride	ND	ug/L	500		75-09-2	2	01
AN	Naphthalene	ND	ug/L	500		91-20-3	3	01
4N	n-Propylbenzene	ND	ug/L	500		103-65	-1	01
4N	Styrene	ND	ug/L	500		100-42-5		01
4N	1,1,2,2-Tetrachloroethane	ND	ug/L	500		79-34-	5	01
AN .	1,1,1,2-Tetrachloroethane	ND	ug/L	500		630-20	- 6	÷ 01
AN	Tetrachloroethylene	ND	ug/L	500		127-18	-4	01
AN	Toluene	.4260	ug/L	500		108-88	3-3	01
AN	1,2,4-Trichlorobenzene	ND	ug/L	500		120-82	1	01
AN	1,2,3-Trichlorobenzene	ND	ug/L	1000		87-61-	6	01
AN	1,1,1-Trichloroethane	ND	ug/L	500		71-55-	6	01
AN	1,1,2-Trichloroethane	ND	ug/L	500		79-00-	5	01
AN	Trichloroethylene	ND	ug/L	500		79-01-	6	01
AN	Trichlorofluoromethane	ND	ug/L	500		75-69-	4	01
AN	1,2,3-Trichloropropane	ND	ug/L	500		96-18-	4	01
AN .	1,2,4-Trimethylbenzene	ND	ug/L	500		95-63-	6	01
AN	1,3,5-Trimethylbenzene	ND	ug/L	500		108-67		01
AN	Vinyl chloride	ND	ug/L	500		75-01-		01
AN	m- and p-Xylene	ND	ug/L	500		108-38	3-3	01
AN .	o-Xylene	ND	ug/L	500		95-47-	6	01
	Method 8260B			alyzed: JLH	09/15/2008	1512	<i>QCgroup</i>	
AN	Acetone	1320000	ug/L	25000	00	67-64-	1	01

034007

Spent Sulfuric Acid

Received: 09/11/2008

EPA Method 8260B

Analyzed: JLH 09/12/2008

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

Gulf Coast Region: 18096 Kings Row Ste H Houston TX 77058

1544



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PA-3380 National Oilwell Varico

provident out of the providence of a control of the providence of



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date 6/16/2009

Dear Tilden Gaspard

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # PA-3380

Expiration Date 6/16/2011

Generator: National Oilwell Varco

Address: 4310 N Sam Houston Pkwy E.

Houston, TX 77032

Waste Information

Name of Waste: Recyclable Used Oil

TCEQ Waste Code #: Rec

Container Type:

Detailed Description of Process Generating Waste:

Used oil removed from returning units from

Color: Varies

Odor: None

pH: 5-10

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948						2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585								
TCE	Q industria	i Solid Wast	e Permit Nur	nber: 3094)	3	<u> </u>								
SECTION 1:	Generato	r Informat	<u>ion</u>											
Company:	National	Oilwell Var	со											
Address:	4310 N S	am Housto	n Pkwy E.											
City:	Houston			St	ate:	TX		Zip:			77032			
Contact:	Tilden Ga	spard				Title:		Managemen	t		***************************************			
Phone Num	ber:	713-48	2-0605			Fax Num	ber:	713-482-069	99					
24/hr Phon	4/hr Phone Number: 936-827-3614													
US EPA ID N	lo:	TXCESO	QG											
State ID No	:	CESQG				SIC Code	: :							
	m100		C7 •											
SECTION 2:	Billing Int	ormation -	ق⊈ لسا ≩ق	me as Abi	ove									
Company:	-					·····								
Address:								71						
City:		····		St	ate:	Title:		_Zip: _						
Contact: Phone Num	hovi					Fax Num	hom							
riidite Naiii	ne:	····				Fax Null	iber:	 -						
SECTION 3:	General C	escription	of the Was	<u>te</u>										
Name of Wa		***************************************	ble Used O	*****					***************************************					
Detailed De	scription o	of Process	Generating '	Waste:										
Hand all sam	- accord from													
Used oil ren	noved from	n returning	units from											
Physical Sta	te: [Liquid Solid			udge Iter Cake			Powder Combination	n					
Color:	Varies	,				Odor:		None		·····				
Specific Gra	vity (wate	r=1):	.78	3	***************************************			Density:	8-Jul	bs/gal				
Does this m	aterial cor	ntain any t	otal phenoil	ic compou	nds?		Yes	V	No					
Does this m	aterial cor	ntain any p	ara substitu	ited pheno	lic comp	ounds?		Ye	es 🕢 l	No				
is the Wasto	subject t	o the benz	ene waste d	peration i	NESHAP?	(40 CFR I	Part 6	1, Subpart Ff	·)	Yes	☑ No			
Answer "Yes	" if your w	aste conta	ins benzene	AND if the	e SIC cod	e from yo	ur fac	cility is one of	the followi	ng:				
2812	28	13	2816	2819	2821		2822	2823	2824	2833	2834			
2835	28	36	2841	2842	2843		2844	2851	2861	2865	2869			
2873	28	74	2876	2879	2891		2892	2893	2896	2899	2911			
3312	49	53	4959	9511										
Layers:	□ s	ingle-phas	e 🗸	Multi-pl	ıase									
Container T	уре:] Drum	☐ Tote	. ☑ Tr	uck 🗌	Other (e:	xplain	1)						
Frequency: Quantity:	Weel 1000-300	-	onthly 🔲	Yearly 🗌	One-Ti	me								

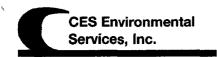
	EPA "Hazardo nen please com				Ye		No iched hereto		
	tic for Toxic N		☐ D004 ☐ D010	□D011	D00	D003 (Rea D007		C000	
Na Na	tic for Toxic O	rganics: DOE	tnru D043 ()	olease list a	ii that appiy)				
	" or "K" Liste then please lis			?	☐ Ye	s v	No		
40 CFR 261	nmercial prod .33(e) or (f)? :hen please lis		Y		3 "U" or "P" w) No NA	raste code ur	nder		
	Waste Code			Recyclable			-		
Proper US (Class:	NA NA	Name: UN/NA:	NA NA	PG:	NA	RQ:	NA		
Flasi	n Point	p	Н	React	ve Sulfides	Reactive	Cyanides	Soli	ds
>	160	5-	10	0	mg/l	0	mg/i	98-100	%
Oil &	Grease	T	OC		Zinc	Co	pper	Nic	kel
Na	mg/l	Na	<u>mg/l</u>	0	<u>mg/l</u>	0	mg/l	0	<u>mg/l</u>
SECTION 4:	Physical and								
		IPONENTS TA		······		CONCEN			UNITS
Th-	e waste consi			als		Ranges are			or%
	U	sed Oil/Diese Water	!			98-1			% %
		water				U-	4		70
									

SECTION 4:	Physical and	d Chemica	Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Used Oil/Diesel	98-100	%
Water	0-2	%
······································		
		
		····
		_

			ne use of special pr	rotective equi	pment, please	explain.		
	uments, note	upporting Doc s, data and/or None	uments analysis attached t	o this form as	part of the w	aste		
	: Incompatik	pilities (ibilities (if any	:					
Laboratory	analysis of t	s Knowledge D he hazardous v ng generator kr	aste characteristic	s, listed belov	, WAS NOT P	ERFORMED		
TCLP Metal	s:	Na						
TCLP Volati		Na			·····			
TCLP Semi-		Na			······································			_
Reactivity:		Na					***************************************	
Corrosivity		Na			 	,	······································	_
Ignitability:		Na						
SECTION 9: Facilities)	is this mater		r or wastewater slud		Treatment Red	quirements f	or <u>Centralized Waste Treatme</u>	<u>int</u>
	PLEASE CHE	CK THE APPROP	RIATE BOX. IF NO A	PPROPRIATE C	ategory, go 1	TO THE NEXT	PAGE.	
Metals Subc	Metal finish Chromate w Air pollutior Spent anodi Incineration Waste liquic Cyanide-cor Waste acids Cleaning, rir Vibratory de	oplating baths a ing rinse water a rastes a control blow di zing solutions wastewaters if mercury staining wastes a and bases with using, and surface eburring wastew	and sludges own water and sludge reater than 136 mg, or without metals e preparation solution	/I ons from electi		osphating op	erations	
Oils Subcate	<u>aory</u> : Subpa	rt B						
<u> </u>	Used oils							
<u></u>	5	nulsions or mixt	ires		4			
<u> </u>] Lubricants] Coolants							
 		ed groundwater	clean-up from petro	leum sources				
_		eum products						
	Oil spill clear	•						
	Blige water		roloum cources					

)	Interceptor wastes
	Off-specification fuels
<u>_</u>	Underground storage remediation waste
<u>[</u>	Tank clean-out from petroleum or oily sources
<u> </u>	Non-contact used glycols
<u>_</u>	Aqueous and oil mixtures from parts cleaning operations
L	Wastewater from oil bearing paint washes
<u>Organics Sul</u>	<u>category</u> : Subpart C
<u></u>	Landfill leachate
<u>_</u>	Contaminated groundwater clean-up from non-petroleum sources
<u></u>	Solvent-bearing wastes
L.,	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesives and/or epoxies formulation
	Wastewater from organic chemical product operations
	Tank clean-out from organic, non-petroleum sources
(1)	
•	if the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	
\- -,	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
	excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/L
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/L
	If the waste contains oil and grease less than 100 mg/t, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory. Metals Subcategory Organics Subcategory
SECTION 10	Additional Instructions
Copper, Nick	determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, el, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11	: Generator's Certification
The informa	tion contained herein is based on 🔃 generator knowledge and/or 🔲 analytical data.
	tify that the above and attached description is complete and accurate to the best of
	·
	ge and ability to determine that no deliberate or willful omissions of compostion
properties e	xist and that all known or suspected hazards have been disclosed. I certify that the
materials te	sted are representative of all materials described by this document.
Authorized	Signature: Italian Sara Date: 6/11/2009
Printed Nan	ne/Title: Tilden Gaspard
cee lier ou	V/DO NOT WINTE IN THE COACE)
LES USE UN	LY (DO NOT WRITE IN THIS SPACE)
Compliance	Officer: Approved Rejected
Approval Nu	
יאו ופאס ולער	mper.



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	CES Pays
į	
2	Contamination I imits (maximum limit hafave supplieres apply)
2.	Contamination Limits (maximum limit before surcharges apply):
	fails CHlor-d-tect
	Flash <120 F
l	
3.	Surcharge Pricing:
1	Call sales rep (Dan Bowman 713-854-6150)
	Can sales tep (Dan Bowman 713-634-6130)
,	
4.	Special Testing Requirements:
	TOC, metals, flash, chlor-d-tect, Viscosity,
_	The state of the s
5.	Treatment and Handling Protocol:
	Used oil
6.	Treated Wastewater Discharge Subcategory:
υ .	Trace wase nave Discharge Subtateguly.
	Subcategory A Subcategory B Subcategory C
	Subcategory A Subcategory B Subcategory C



PROCESS FACILITY INFORMATION (CES USE ONLY!!)

lests for Product Recovered/Recycled (If applicable):	
Used oil tests	
Management for Product Recovered/Recycled (if applicable);	
sell oil portion in used oil market	

Environmental & Industrial Hygiene Services

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL

ANALYTICAL SERVICES REQUEST

3082 25th Street, Port Arthur, TX 77642 Phone: (409) 983-4575, Fax: (409) 982-1522 E-mail: chemtexpa@sbcglobal.net

CLIENT: CES Environmental Services ATTN: Marlin Moser										Phone #: (713)539-6574 Email: mmoser@cesenvironmental.com ggbery@cesenvironmental.com						
BILLING CONTAC (If different from al			P. O. #:		PROJECT NO: PROJECT:						SITE/LOCATION: 2420 South Gulfway Drive					
SAMPLE(S) COLLECTED BY (PRINT NAME):							naround Tir									
			2-4 hr Rush		24 hr Rush 48 hr Rush				REQUESTED ANALYSES				Zere			
<u> </u>	<u> </u>		5-7 days_	Sample Mat	rix Codes:	· · · · · · · · · · · · · · · · · · ·		7-14	days_		-	KEQU.	T	ANAL	COES	
СНЕМТЕХ	SAMPLE	COLLEC	CTION	Drinking Wa Groundwater Liquid Waste Oil(s) Paint Chips Sand Sludge	GW LW O PC Sn S1	Composite/	Preservative		Sample Container	s	7	Sodium	Part Poril			
#	IDENTIFICATION	Date	Time	Soil /Solid Solid Waste Trip Blank Water Wipes Wastewater	il/Solid S lid Waste SW p Blank TB eter W			No.	Size (oz.)	Type (Glass/ Plastic)	187	200	F/2			
		12-15-08	3 2.0681) Od	2		No			G						
					,										·	
						10 4 10	N. 48 14 2 15									
					1 - 1											
										1						,
				-						†	-					
	, , , , , , , , , , , , , , , , , , , ,							1					<u> </u>			
Special Remarks:	Samples must be pres	served on ice a	after sampl	e collect	tion ar	nd transpo	rted in ice c	hest.		<u></u>		1	_ 	L	<u> </u>	
Relinquished By:	Godeloy 6	Bery	Date/Time	1151	<i>σ</i> δ:	2:45PD R	eceived By:				· · · · · · · · · · · · · · · · · · ·	D	ate/Time	:		
Relinquished By:			Date/Time	.			eceived By:	Mil		adre	de	D	ate/Time	28	2:4	5m
			Facilities :	re also ava	ilable at:						-	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				

EPAPA001000660

EPAPA001000661

CHEMTEX

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL

ANALYTICAL SERVICES REQUEST

Environmental & Industrial Hygiene Services

3082 25th Street, Port Arthur, TX 77642 Phone: (409) 983-4575, Fax: (409) 982-1522 E-mail: chemtexpa@sbcglobal.net

	S Environmental Services rlin Moser		ADDRESS: 2420 South Gulfway Drive Port Arthur, TX 77641				Phone #: (713)539-6574 Email: mmoser@cesenvironmental.com Gybey@cesenvironmental.com			com						
	ILLING CONTACT/ADDRESS: f different from above)		P. O. #:		PRC	DJECT NO				SITE/LOCATION: 2420 South Gulfway Drive			·			
SAMPLE(S) C	OLLECTED BY (PRINT NAM	AE):			Exp	ected Tur	naround Ti	me	······							
			2-4 hr Rus		_	24 hr Ru	sh	48 hr l			1	222			******	
			5-7 days_3					7-1	4 days_			REQUI	ESTED	ANAL	YSES	
СНЕМТЕХ	TEX SAMPLE		Sample Matrix Drinking Water COLLECTION Coundwater Liquid Water Oi(s) Paint Chips		ter DW r GW	Composite/ Grab	Preservative	Sample Containers		RCI	TCLP Metals & TCLP Volatiles					
# I	IDENTIFICATION	Date	Time	Soil/Solid Solid Waste Trip Blank Water Wipes Wastewater	i Waste SW Blank TB er W es WP		No.	No. Size Type (Glass/ Plastic)		tals & latiles						
	Caustic Wastewater	11-26-08	43080	W	W	G	None	. 1	32	P	X	Х				
			·													
					<u></u>			-						-		
								4.5								
Special Pameri	cs: Samples must be prese	mund on ion	ofter semal	a collect	ion or	d transpo	rtod in ion o	hast	<u> </u>	<u> </u>				<u> </u>	<u></u>	
Special Kemarr	cs. Samples must be presi	er veu on ree a	nici sampi	e coneci	.1011 411	iu tį anspo	i ieu m'ice'c	iicst.								
Relinquished By	60de 107 (obery	Date/Time	9.06	OL-O AC	1		vela	Do	die	U		te/Time		9	1011
Relinquished By	:		Date/Time			Re	eceived By:	T				Dat	té/Time): 		

2420 South Gulfway Drive Port Arthur, TX 77641

Attn: Marlin Moser

Phone: 1-713-559-6574

Email: mmoser@cesenvironmental.com

ggbery@cesenvironmental.com

Report Date: 12/04/08

Sample Matrix: Waste Water Date Collected: 11/26/08 Collected By: Client

Date Received: 12/01/08 Time Received: 9:10am CHEMTEX FILE #: P8120001

nelap certificate # T104704239-08A-TX

AIHA Laboratory # 101478

EPA

RESULTS OF ANALYSIS

SITE LOCATION: 2420 South Gulfway Drive Sample Identification: Caustic Wastewater CHEMTEX #: P8120001

TOXICITY CHARACTERISTICS LEACHING PROCEDURE CONSTITUENTS

HW# CAS #	Constituents	<u>Units</u>	Results	MDL	RMCCL	EPA Method
TCLP Metals						
D004 7440-38-	-2 Arsenic	mg/l	< 0.05	0.05	5	1311/6010B
D005 7440-39-	-3 Barium	mg/l	< 0.20	0.20	100	1311/6010B
D006 7440-43-	-9 Cadmium	mg/l	< 0.05	0.05	1	1311/6010B
D007 7440-47-	-3 Chromium	mg/l	< 0.05	0.05	5	1311/6010B
D008 7439-92-	-1 Lead	mg/l	< 0.05	0.05	5	1311/6010B
D009 7439-97-	-6 Mercury	mg/l	< 0.02	0.02	0.2	1311/7470A
D010 7782-49-	-2 Selenium	mg/l	< 0.05	0.05	1	1311/6010B
D011 7440-22-	-4 Silver	mg/l	< 0.05	0.05	5	1311/6010B
TCLP Volatiles						
D018 71-43-2	Benzene	mg/l	< 0.01	0.01	0.5	1311/8260B
D019 56-43-2	Carbon tetrachloride	mg/l	< 0.01	0.01	0.5	1311/8260B
D021 108-90-7	Chlorobenzene	mg/l	< 0.01	0.01	100.0	1311/8260B
D022 67-66-3	Chloroform	mg/l	< 0.01	0.01	6.0	1311/8260B
D028 107-06-2	1,2-Dichloroethane	mg/l	< 0.01	0.01	0.5	1311/8260B
D029 75-35-4	1,1-Dichloroethylene	mg/1	< 0.01	0.01	0.7	1311/8260B
D035 78-93-3	Methyl ethyl ketone	mg/l	< 0.05	0.05	200.0	1311/8260B
D039 127-18-4	Tetrachloroethylene	mg/l	< 0.01	0.01	0.7	1311/8260B
D040 79-01-6	Trichloroethylene	mg/l	< 0.01	0.01	0.5	1311/8260B
D043 75-01-4	Vinyl chloride	mg/l	< 0.01	0.01	0.2	1311/8260B

MDL: Method Detection Limit.

RMCCL: Regulatory Maximum Concentration of Contaminants in the TCLP Leachate.

Parameter TCLP Metals TCLP Volatiles Date Analyzed/Analysts 12/02/08 KSR/HKR 12/02/08 KBR/PPS

Certified that the test results meet all requirements of NELAC for all the parameters mentioned in the scope of accreditation. The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations congressed represent the best judgment of CHEMPTEX. However, makes no vertency or representation, express or largeled, of any type, and energially disclaims assem. This report shall not be reproduced, in whole or in part, without the written approval of CHEMPTEX.

2420 South Gulfway Drive Port Arthur, TX 77641

Attn: *Marlin Moser* Phone: 1-713-559-6574

Email: mmoser@cesenvironmental.com

ggbery@cesenvironmental.com CHEMTEX FILE #: P8120001

AIHA Laboratory # 101478

nelap certificate # T104704239-08A-TX

Report Date: 12/04/08

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL DATA

PERCENT RECOVERY OF SURROGATES

COMPOUND NAME	% RECOVERY	LIMITS
TCLP Volatiles	 	
1,2-Dichloroethane-d₄	102	70-121
Toluene-d₀	110	84-138
4-Bromofluorobenzene	108	86-115

LABORATORY CONTROL SAMPLE (LCS) RECOVERY

EPA			
HW#	CAS #	Constituents	(%) Recovery
TCLP Me	tals:	,	
D004	7440-38-2	Arsenic	98
D005	7439-39-3	Barium	95
D006	7440-43-9	Cadmium	103
D007	7440-47-3	Chromium	103
D008	7439-92-1	Lead	101
D009	7439-97-6	Mercury	98
D010	7439-49-2	Selenium	96
D011	7440-22-4	Silver	103
TCLP Vo	latiles:		
D018	71-43-2	Benzene	108
D019	56-23-5	Carbon tetrachloride	80
D021	108-90-7	Chlorobenzene	88
D022	67-66-3	Chloroform	95
D028	107-06-2	1,2-Dichloroethane	114
D029	75-35-4	1,1-Dichloroethylene	88
D039	127-18-4	Tetrachloroethylene	79
D040	79-01-6	Trichloroethylene	106

Certified that the test results meet all requirements of NELAC for all the parameters mentioned in the scope of accreditation. The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of CHEMTEX.

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2420 South Gulfway Drive Port Arthur, TX 77641

Attn: Marlin Moser Phone: 1-713-559-6574

Email: mmoser@cesenvironmental.com

ggbery@cesenvironmental.com

Report Date: 12/04/08

Sample Matrix: Waste Water Date Collected: 11/26/08 Collected By: Client

Date Received: 12/01/08 Time Received: 9:10am CHEMTEX FILE #: P8120001

AIHA Laboratory # 101478

nelap certificate # T104704239-08A-TX

RESULTS OF ANALYSIS

SITE LOCATION: 2420 South Gulfway Drive Sample Identification: Caustic Wastewater CHEMTEX #: P8120001

Parameter	<u>Units</u>	Results	MDL
Reactive Cyanide	mg/l	< 5	5
Reactive Sulfide	mg/1	< 10	10
Ignitability	° F	> 200	
Corrosivity as pH	pH units	4.18	

MDL: Method Detection Limit.

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL DATA

LABORATORY CONTROL SAMPLE (LCS) RECOVERY

Parameter	Units	True Value	Obtained value
Ignitability Std (p-Xylene)	° F	77	78
pH pH	pH units	4.00	3.99

METHOD REFERENCES/ANALYSIS DATES & ANALYSTS

Parameter	Method Reference	Date Analyzed/Analysts
Reactive Cyanide	EPA Method SW-846/7.3.3.2	12/04/08 PSL
Reactive Sulfide	EPA Method SW-846/7.3.4.2	12/04/08 PSL
Ignitability	EPA Method 1010A	12/04/08 SR
Corrosivity as pH	EPA Method 9040C	12/04/08 SR

Dr. C. N. Reddy, Ph.D, CIH, ASP Director

Kv*/amd/CNR

Cartified that the test results meet all requirements of NELAC for all the parameters mentioned in the scope of accreditation. The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of CHENTEX. Answerer, makes no variancy or representation, express or implicit, of any type, and expressly disclaims same. This report shall not be reproduced, in whole or in part, without the without the many type and representation of the produced, in whole or in part, without the without the many type, and express of the many type, and express of the many type, and express of the many type, and express of the many type, and express of the many type, and express of the many type, and express of the many type, and express of the many type, and the ma



TESTIN	IG L	ABOR	ATORY	IDENTIFIC	ATION &	INFO	ORMATION:
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CHAIN of CUSTODY RECORD

CES Environmental Services, Inc.		Test	Results	Reporting
4904 Griggs Road		CES Environmental	Services, Inc.	

4904 Griggs Road Houston, TX 77021

Main Number: (713) 676-1460

Fax Number: (713) 676-1676

08110566

Main Number: (713) 676-1460 Fax Number: (713) 676-1676

Project Name	Sample I	Vame	Comments/Sp	ecial Instructions	•
Port Arthur Contact: Gode roy Gber	RV2	2418	Turnaround Time Ro DATE and/or Number of Days:	equired:	
SAMPLER: PRINT: God SIGN:			OTHER INFORMATION:	y monda	124-08
Type and Number of Confainers (C Glass Grab	EIRCLE): 3 (4) 5 6	Other:	SAMPLE NAME/ID ('s):) I- A
Requested Analysis:	al Phens	2 (62	5)		
1. Relinquished By:	Date:	Time: •	Received By:	Date: 11/21/08	Time: 72.6 16.40.
Relinquished By:	Date:	Time: •	্ধ? Received By:	Date:	Time:
5. Relinquished By:	Date:	Time:	6. Received By:	Date:	Time:

Client: CES Environmental Services

2420 South Gulfway Dr.

Port Arthur, TX 77641

Mr. Marlin Moser Attn:

Phone: 1-713-539-6574 E-mail: mmoser@cesenvironmental.com

ggbery@cesenvironmental.com

CHEMTEX FILE #: P8120549

AIHA Laboratory # 101478

nelap certificate # T104704239-08A-TX

Report Date: 12/16/08

Collected By: Client

Date Collected: 12/15/08 Time Collected: 2:00pm

Date Received: 12/15/08 Time Received: 2:45pm

Sample Matrix: Oil

RESULTS OF ANALYSIS

SITE/LOCATION: 2420 South Gulfway Drive Sample Identification: N/A CHEMTEX #: P8120549

Parameter	<u>Units</u>	Results	$\underline{\mathtt{MDL}}$
B T U (heat content)	btu/lb	35,836	100
Sodium	mg/kg	185	2.5
Flashpoint	°F'	140	

MDL: Method Detection Limit.

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL DATA

LABORATORY CONTROL SAMPLE (LCS) RECOVERY

Parameter	Units	True Value	Obtained Value	% Recovery
BTU Sodium	btu/lb mg/l	11,373 1.000	11,350 0.997	95 100
Flashpoint	° F	77	79	

METHOD REFERENCES/ANALYSIS DATES & ANALYSTS

Para	meter	
BTU	(heat	content)
Sodi	um	
Flas	hpoint	5

Method Reference ASTM D-240 EPA Method 7770 EPA Method 1010

Date Analyzed/Analysts 12/15/08 SR 12/16/08 HKR/KSR 12/15/08 SR

Dr. C. N. Reddy, Ph.D, CIH, ASP Director

amd/kv/kml*/CNR

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EPAPA001000667

CHEMTEX

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL

ANALYTICAL SERVICES REQUEST

Environmental & Industrial Hygiene Services

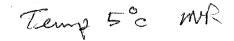
3082 25th Street, Port Arthur, TX 77642 Phone: (409) 983-4575, Fax: (409) 982-1522

E-mail: chemtexpa@sbcglobal.net

CLIENT: CES E	· -	ADDRESS: 2420 South Gulfway Drive Port Arthur, TX 77641									hone #: (713)539-6574 mail: mmoser@cesenvironmental.com ggbery@cesenvironmental.com						
BILLING CONTAC (If different from ab			P. O.	#:	PRO	JECT NO:		PROJ	ECT:		SITE/LOCATION:						
SAMPLE(S) COL	LECTED BY (PRINT NAM	TE):		•			naround Tir										
			2-4 hr Rus	sh	_ :	24 hr Rus	h	48 hr				~~~~~	200000				
			5-7 days_			T		7-14	days			REQUI	ESTED	ANAL	YSES .		
CHEMTEX	SAMPLE	COLLI	ECTION	Sample Mat Drinking Wa Groundwater Liquid Waste Oil(s) Paint Chips Sand Sludge	nter DW r GW	Composite/ Grab	Preservative		Sample Container	's	Iron, Sodium, Zinc	вти	ASH	Chlorides			
#	IDENTIFICATION	Date	Time	Soil./Solid Solid Waste Trip Blank Water Wipes Wastewater	S SW TB W WP WW			No.	Size (oz.)	Type (Glass/ Plastic)		J	ş.i-q				
	Tank 167	01/16/09	11:00a	Liq	uid	C	None	1	32	P	X	X	X	X			
-																	
													-				
															<u>'</u>		
					-												
						v	26 · s_										
Special Remarks:	Samples must be presented	erved on ice	e after sampl	e collect	tion an	d transpo	rted in ice c	hest.	Ms	eod	Ro	putt	5 h	u 1	toon	- ,	
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Organic, Metal, Wet Chemical, Biological and PetroChemical Analysis for Multi Media Environmental and Industrial Hygiene Samples Facilities are also available at: 5544 Leopard Street, Corpus Christi, Texas 78408 138 S. Cities Service Hwy., Sulphur, Louisiana 70663

(361) 299-9900 (337) 626-2121 FAX (361) 299-1155 FAX (337) 626-2126 E-mail: chemtexce@sbcglobal.net E-mail: chemtexlc@sbcglobal.net



EPAPA001000668

CHEMTEX

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL

ANALYTICAL SERVICES REQUEST

Environmental & Industrial Hygiene Services 3082 25th Street, Port Arthur, TX 77642 Phone: (409) 983-4575, Fax: (409) 982-1522

E-mail: chemtexpa@sbcglobal.net

ATTN: Marlin	nvironmental Services 1 Moser			Port Arthur, TX 77641								Phone #: (713)539-6574 Email: mmoser@cesenvironmental.com ggbery@cesenvironmental.com						
BILLING CONTAC (If different from ab			P. O.	#:	PRO	JECT NO:		PROJ	ECT:			SI	TE/LOC	CATIO	V:			
SAMPLE(S) COL	LECTED BY (PRINT NAM	IE);		• · · · · · · · · · · · · · · · · · · ·	Expected Turnaround Time													
			2-4 nr Rus 5-7 days	4 hr Rush 24 hr Rush 48 hr Rush 7-14 days							•	REQUESTED ANALYSES						
СНЕМТЕХ	SAMPLE	COLLI	ECTION	Sample Matri Drinking Wate Groundwater Liquid Waste Oil(s) Paint Chips Sand	er DW	Composite/ Grab	Preservative		Sample Container	S	NASH							
#	IDENTIFICATION	Date	Time	Sludge Soil/Solid Solid Waste Trip Blank Water Wipes Wastewater	SI S SW TB W WP WP			No.	Size (oz.)	Type (Glass/ Plastic)	SН							
	NASH	01/16/09	·	Liqu	iid	С	None	1	32	P	X							
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	Samples must be prese	erved on ice	after sampl	e collecti	ion an	d transpo	rted in ice cl	iest.		J			· · · · · · · · · · · · · · · · · · ·					
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			Facilities :	are also avail	able at:													

Organic, Metal, Wet Chemical, Biological and PetroChemical Analysis for Multi Media Environmental and Industrial Hygiene Samples 5544 Leopard Street, Corpus Christi, Texas 78408 138 S. Cities Service Hwy., Sulphur, Louisiana 70663

(361) 299-9900 (337) 626-2121 FAX (361) 299-1155 FAX (337) 626-2126 E-mail: chemtexcc@sbcglobal.net
E-mail: chemtexcc@sbcglobal.net

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CHEMTEX

CHAIN OF CUSTODY RECORD ENVIRONMENTAL

Environmental & Industrial Hygiene Services 3082 25th Street, Port Arthur, TX 77642 Phone: (409) 983-4575, Fax: (409) 982-1522

ANALYTICAL SERVICES REQUEST

E-mail: chemtexpa@sbcglobal.net

ATTN: Marlin	nvironmental Services n Moser		ADDRESS: 2420 South Gulfway Drive Port Arthur, TX 77641									Phone #: (713)539-6574 Email: mmoser@cesenvironmental.com ggbery@cesenvironmental.com						
BILLING CONTAC (If different from ab			Р. О.	# :	PRO	JECT N	O:	PRO.	ECT:		SITE/LOCATIO 2420 South Gulfway							
SAMPLE(S) COL	LECTED BY (PRINT NAM	E):					urnaround Ti											
			2-4 hr Rus	h	. :	24 hr R	ush	48 hr		,		DEAL		4 BT 4 T	**CEC	1		
			5-7 days_	Sample Matr	- Cadam			7-14	days		,	REQU.	ESTED	ANAL	YSES			
СНЕМТЕХ	SAMPLE	COLLI	ECTION	Drinking Wat Groundwater Liquid Waste Oil(s) Paint Chips Sand Sludge	ter DW GW LW O PC Sn SI	Composite Grab	/ Preservative		Sample Containers	*. ** **				-				
#	IDENTIFICATION	Date	Time	Soil./Solid Solid Waste Trip Blank Water Wipes Wastewater	S SW TB W WP WW			No.	Size (oz.)	Type (Glass/ Plastic)		:						
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Special Remarks:	Samples must be prese	rved on ice	after sample	e collect	ion an	d trans	ported in ice (chest.			,							
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L			Facilities a	re also avai	lable at:					. ,	· · · · · · · · · · · · · · · · · · ·							

EPAPA001000669

2982

STRAIGHT BILL OF LADING – SHORT FORM ORIGINAL – NOT NEGOTIABLE

Shippers #: 011509A Page: 1 of 1 Date: 01/15/09

Route: via

Originating Carrier
Estes or Subcontractor

Delivering Carrier
Estes or Subcontractor

Container Number (s)

Seal Number (s) 1780742

Received, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, at the property described below in apparent good order, except as noted (contents and conditions of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:

(Mail or Street Address of Consignee for Purposes of Notification Only)

Consignee:

CES

2420 South Gulfway Drive Port Arthur, TX 77641

Attn: Port Arthur Receptionist

713-676-1460

Destination: Same

FROM:

Shipper:

AFTON CHEMICAL CORPORATION

501 MONSANTO AVENUE

Origin: SAUGET, IL 62201

Afton Sales Order #: 1105

	er #:			
Material	Quantity/	Н	Descriptions & Instructions	*Net Weight/
Code	Sales Unit	M	•	*Gross Weight (Subject to Correction)
N/A	1, 55 Gallon Drum - Overpacked	X	Environmentally Hazardous Substances, N.O.S., (Alkylphenols), 9, NA3082, III (Marine Pollutant)	NWT 3 0986 GWT 63740
	62, 55 Gallon Drums		Petroleum Products – Not Regulated for Transportatio	n .
1	1755 Gallon Drums - Overpacked		Petroleum Products – Not Regulated for Transportatio	n
	2 5 GAIDN PAILS		PETroleym ProducTS - NOT REGULD Bill of Lading Weight Totals for All Items. All Pages	A TEL FOR TRANSPORTATE LB NWT (Same as
	r Purchase Ord Material Code	Purchase Order #: Material Quantity/ Sales Unit	Material Quantity/ H Sales Unit M N/A 1, 55 Gallon X Drum - Overpacked 17 55 Gallon Drums 17 55 Gallon Drums 18 Gallon Drums 19 Gallon Drums 10 Gallon Drums 10 Gallon Drums 10 Gallon Drums 10 Gallon Drums 11 Gallon Drums 12 Gallon Drums 13 Gallon Drums 15 Gallon Drums 16 Gallon Drums 17 55 Gallon Drums 17 55 Gallon Drums 18 Gallon Drums 18 Gallon Drums 18 Gallon Drums	Material Quantity/ Sales Unit N/A 1, 55 Gallon X Environmentally Hazardous Substances, N.O.S., (Alkylphenols), 9, NA3082, III (Marine Pollutant) Overpacked Petroleum Products – Not Regulated for Transportation Trums - Overpacked Petroleum Products – Not Regulated for Transportation Petroleum Products – Not Regulated for Transportation Petroleum Products – Not Regulated for Transportation Petroleum Products – Not Regulated for Transportation Petroleum Products – Not Regulated for Transportation Petroleum Products – Not Regulated for Transportation Petroleum Products – Not Regulated for Transportation Petroleum Products – Not Regulated for Transportation Petroleum Products – Not Regulated for Transportation

"Where the rates of any of the items listed a value, he agreed or declared value of the pr specifically stated by the shipper to be not op pound."	operty is hereby exceeding 1300 cents per	Subject to Section 7 of cond shipment is to be delivered to consignor, the consignor shall not make delivery of the other lawful charges.	to the consignce with all sign the following	This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.						
*If the shipments move between two ports law requires that the Bill of Lading shall sta or Shipper's weight.		AFTON CHE	MICAL COR	El am les						
IF CHARGES ARE TO BE PREPAI STAMP HERE "PREPAID"	D, WRITE OR	SHELL GALLONA	GE		Signature					
STAINT HERE PREFAIL		CAPACITY 6932			Signature					
Mail revenue bills on prepaid Shipments to the address below.	to Verification in acc	ordance with any or with Railroads or the tion Bureau having	Outage in compliance No. BOE6000 and sup Thereto or reissues		Lole Elan					
W ₁	1 "	PPER: AFTON CHEM	nereof IICAL CORPOR	RATION.	AGENT Landslan					
	PER				000					

TRANSPORTATION EMERGENCY: CALL CHEMTREC 1-800-424-9300 or AFTON CHEMICAL 1-800-403-0044

LB GWT

Above)



3082 25th Street, Port Arthur, Texas 77642 • (409) 983-4575 FAX (409) 982-1522 5544 Leopard Street, Corpus Christi, Texas 78408 • (361) 299-9900 FAX (361) 299-1155 138 S. Cities Service Hwy., Sulphur, Louisiana 70663 • (337) 626-2121 FAX (337) 626-2126

Client: CES ENVIRONMENTAL

2420 South Gulfway Drive Port Arthur, TX 77641

Attn: Mr. Marlin Moser Phone:1-713-539-6574

Email: mmoser@cesenvironmental.com

ggbery@cesenvironmental.com

Report Date: 01/15/09 Sample Matrix: Water Date Collected: 01/12/09 Time Collected: 5:30pm Collected By: Godefroy Gbery

Date Received: 01/13/09 Time Received: 8:35am CHEMTEX FILE #: P9010319

AIHA Laboratory # 101478

nelap certificate # T104704259-08A-TX

RESULTS OF ANALYSIS

SITE/LOCATION: 2420 South Gulfway Drive

CHEMTEX	Sample		· ·		
<u>#</u>	Identification	Parameter	Units	Results	MDL
P9010319	N/A	Total Metals			
		Total Barium	mg/l	0.049	0.010
		Total Cadmium	mg/l	0.030	0.001
		Total Chromium	mg/l	< 0.010	0.010
		Total Lead	mg/l	< 0.005	0.005
		Total Mercury	mg/l	< 0.0002	0.0002
		Total Nickel	mg/l	0.068	0.010
		Total Potassium	mg/l	15.250	0.050
		Total Selenium	mg/l	0.880	0.010
		Total Silver	mg/l	0.020	0.002
		Total Zinc	mg/l	0.202	0.005
Method Blank	DI Water	Total Metals			
		Total Barium	mg/l	< 0.010	0.010
		Total Cadmium	mg/l	< 0.001	0.001
		Total Chromium	mg/l	< 0.010	0.010
	Σ.	Total Lead	mg/l	< 0.010	0.0010
		Total Mercury	mg/l	< 0.0002	0.0002
		Total Nickel	mg/l	< 0.010	0.010
		Total Potassium	mg/l	< 0.050	0.050
		Total Selenium	mg/l	< 0.010	0.010
		Total Silver	mg/l	< 0.002	0.002
		Total Zinc	mg/l	< 0.005	0.005

MDL: Method Detection Limit.

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of CHESTEX. CHESTEX, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same This report shall not be reproduced, in whole or in part, without the written approval of CHESTEX.

Page 1 of 2







Environmental & Industrial Hygiene Services

3082 25th Street, Port Arthur, Texas 77642 • (409) 983-4575 FAX (409) 982-1522 5544 Leopard Street, Corpus Christi, Texas 78408 • (361) 299-9900 FAX (361) 299-1155 138 S. Cities Service Hwy., Sulphur, Louisiana 70663 • (337) 626-2121 FAX (337) 626-2126

Client: CES ENVIRONMENTAL Report Date: 01/15/09

> 2420 South Gulfway Drive Port Arthur, TX 77641

Attn: Mr. Marlin Moser Phone: 1-713-539-6574

Email: mmoser@cesenvironmental.com

ggbery@cesenvironmental.com CHEMTEX FILE #: P9010319

AIHA Laboratory # 101478

nelap certificate # T104704259-08A-TX

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL DATA

LABORATORY CONTROL SAMPLE (LCS) RECOVERY

Parameter	Units	True Value	Obtained Value	% Recovery	Limits (%)
Total Barium	mg/l	2.000	2.028	101	80-120
Total Cadmium	mg/l	0.250	0.264	106	80-120
Total Chromium	mg/l	0.200	0.206	103	80-120
Total Lead	mg/l	0.500	0.508	102	80-120
Total Mercury	mg/l	0.0050	0.0044	88	80-120
Total Nickel	mg/l	0.500	0.526	105	80-120
Total Potassium	mg/l	5.000	4.974	99	80-120
Total Selenium	mg/l	0.500	0.503	101	80-120
Total Silver	mg/l	0.250	0.259	104	80-120
Total Zinc	mg/l	0.500	0.524	105	80-120

METHOD REFERENCES/ANALYSIS DATES & ANALYSTS

Parameter	Method Reference	Date Analyzed/Analysts
Total Metals		
Total Barium	EPA Method 200.7, Rev. 4.4(1994)	01/14/09 HKR/KSR
Total Cadmium	EPA Method 200.7, Rev. 4.4(1994)	01/14/09 HKR/KSR
Total Chromium	EPA Method 200.7, Rev. 4.4(1994)	01/14/09 HKR/KSR
Total Lead	EPA Method 200.7, Rev. 4.4(1994)	01/14/09 HKR/KSR
Total Mercury	EPA Method 245.1, Rev. 3.0(1994)	01/14/09 HKR/KSR
Total Nickel	EPA Method 200.7, Rev. 4.4(1994)	01/14/09 HKR/KSR
Total Potassium	EPA Method 200.7, Rev. 4.4(1994)	01/14/09 HKR/KSR
Total Selenium	EPA Method 200.7, Rev. 4.4(1994)	01/14/09 HKR/KSR
Total Silver	EPA Method 200.7, Rev. 4.4(1994)	01/14/09 HKR/KSR
Total Zinc	EPA Method 200.7, Rev. 4.4(1994)	01/14/09 HKR/KSR

Dr. C. N. Reddy, Ph.D,

kml/amd/kv*/CNR

Director

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of CHEMTEX, however, makes no warranty or representation, express or implied, of any type, and expressly disclaims same. This report shall not be reproduced, in whole or in part, without the written approval of CHEMTEX. Page 2 of 2





EPAPA001000673

CHEMTEX

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL

ANALYTICAL SERVICES REQUEST

Environmental & Industrial Hygiene Services

3082 25th Street, Port Arthur, TX 77642 Phone: (409) 983-4575, Fax: (409) 982-1522 E-mail: chemtexpa@sbcglobal.net

	Environmental Services in Moser		ADDRESS	ADDRESS: 2420 South Gulfway Drive Port Arthur, TX 77641								Phone #: (713)539-6574 Email: mmoser@cesenvironmen ggbery@cesenvironmental					
BILLING CONTA (If different from a			P. O. #: PROJECT NO: PROJECT:							SITE/LOCATION: 2420 South Gulfway Drive							
SAMPLE(S) CO	LLECTED BY (PRINT NAM	ME):	Expected Turnaround Time														
Gode	LOY GERM		2-4 hr Rus	h	2	24 hr Rus	sh (48 hr]		<u> </u>	ļ ,	REQUESTED ANALYSES					
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		5-7 days_	Samula 35 take	. 0. 1 1			-7-14	days_			KEQU.	ESTED	ANAL	SES		
СНЕМТЕХ	SAMPLE	COLLI	ECTION	Sample Matrix Drinking Water Groundwater Liquid Waste Oil(s) Paint Chips Sand Sludge	GW LW O PC Sn Si	Composite	Preservative		Sample Container		ATTachment 2CP	•					
#	IDENTIFICATION	Date	Time	Soil./Solid Solid Waste Trip Blank Water Wipes Wastewater	SW SW WP WP WW			No.	Size (oz.)	Type (Glass/ Plastic)	See						
P9010319		01-19	5:30PM	~)		No			P							
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Special Remarks	: Samples must be pres	erved on ice	after sample	e collecti	on an	d transpo	orted in ice cl	hest.									
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EPAPA001000674

CHAIN OF CUSTODY RECORD Environmental & Industrial Hygiene Services

3082 25th Street, Port Arthur, TX 77642 Phone: (409) 983-4575, Fax: (409) 982-1522 ANALYTICAL SERVICES REQUEST

ENVIRONMENTAL

E-mail: chemtexpa@sbcglobal.net

1 .	Invironmental Services n Moser		ADDRESS	ADDRESS: 2420 South Gulfway Drive Port Arthur, TX 77641								Phone #: (713)539-6574 Email: mmoser@cesenvironmental.com ggbery@cesenvironmental.com					
BILLING CONTA (If different from a			P. O.	#:	PRO	JECT N	O:	PROJ	ECT:					CATIOI ulfway	ATION: fway Drive		
SAMPLE(S) COL	LECTED BY (PRINT NAM	E):					Turnaround Time						····				
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	1		5-7 days_	V 6		·····		7-14	days_			REQU	ESTED	ANAL	YSES		
СНЕМТЕХ	SAMPLE	COLLI	ECTION	Sample Mate Drinking War Groundwater Liquid Waste Oil(s) Paint Chips Sand Sludge	er DW GW LW O PC Sn Sl	C Composite/ Pre	Preservative		Sample Container	s							
#	IDENTIFICATION	Date	Time	Soil./Solid Solid Waste Trip Blank Water Wipes Wastewater	S SW TB W WP WW			No.	Size (oz.)	Type (Glass/ Plastic)							
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Special Remarks:	Samples must be prese	rved on ice	after sampl	e collect	ion an	d transp	oorted in ice c	hest.	<u> </u>					J	1		
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Relinquished By:		Date/Time:					Received By:					Da	ate/Time	9:			
		lable at:										***************************************					

2420 South Gulfway Drive Port Arthur, TX 77641

Mr. Marlin Moser Attn:

Phone: 1-713-539-6574

Email: mmoser@cesenvironmental.com

ggbery@cesenvironmental.com

Report Date: 12/19/08 Sample Matrix: Oils Date Collected: 12/18/08

Time Collected: 19:00

Collected By: Godefroy Gbery

Date Received: 12/18/08 Time Received: 11:45am CHEMTEX FILE #: P8120675

AIHA Laboratory # 101478

nelap certificate # T104704239-08A-TX

RESULTS OF ANALYSIS SITE/LOCATION: 2420 South Gulfway Drive Sample Identification: 267 CHEMTEX #: P8120675

Parameter	<u>Units</u>	Results	MDL
Ash Content	wt %	1.75	0.01
Chloride	mg/kg	418	1
Total Sodium	mg/kg	213.9	2.5
Total Zinc	mg/kg	< 2.5	2.5
Total Iron	mg/kg	< 2.5	2.5
B T U (heat content)	btu/lb	32,215	100
Hydrogen Sulfide (H2S)	mg/kg	*	1.0
Water Content		·	

ppm: parts per million

MDL: Method Detection Limit

Method References/Dates Analyzed and Analysts

Parameter	Method Reference	Date Analyzed/Analyst(s)
Ash Content	ASTM D-482	12/19/08 PSL
BTU (heat content)	ASTM D-240	12/18/08 SR
Chloride	EPA Method 300.0	12/18/08 PPS
Total Sodium	EPA Method 6010B	12/18/08 HKR/KSR
Total Zinc	EPA Method 6010B	12/18/08 HKR/KSR
Total Iron	EPA Method 6010B	12/18/08 HKR/KSR
Water Content	ASTM D-6304	12/18/08 ACM

Dr. C. N. Reddy, Ph.D, CIH, ASP Director

Kml/CNR

Certified that the test results meet all requirements of NELAC for all the parameters mentioned in the scope of accreditation. The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of CHEMPTEX.

^{*} Results will be given later.

EPAPA001000676

CHEMTEX

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL
ANALYTICAL SERVICES REQUEST

Environmental & Industrial Hygiene Services 3082 25th Street Port Arthur TX 77642

3082 25th Street, Port Arthur, TX 77642 Phone: (409) 983-4575, Fax: (409) 982-1522 E-mail: chemtexpa@sbcglobal.net

CLIENT: CES Environmental Services ATTN: Marlin Moser BILLING CONTACT/ADDRESS: (If different from above)			ADDRESS: 2420 South Gulfway Drive Port Arthur, TX 77641						Phone #: (713)539-6574 Email; mmoser@cesenvironmental.com ggbery@cesenvironmental.com										
			P. O. #:		#:	PROJECT NO:		:	PROJECT:			SITE/LOCATION: 2420 South Gulfway Drive							
SAMPLE(S) COL		BY (PRINT NAI	ME):							naround Ti									
Godelog Gbery				2-4 hr Rush								REQUESTED ANALYSES							
	1				5-	7 days_			·		7-14	days_			REQU.	ESTED	ANAL	YSES	
СНЕМТЕХ		AMPLE	(COLL	ECT	TION	Sample Matri Drinking Wate Groundwater Liquid Waste Oil(s) Paint Chips Sand Studge Soil/Solid	er DW GW	Composite/ Grab	Preservative		Sample Container		34	2	iva over	70	TROY	Set.
#		IFICATION		Date		Time	Solid Waste Trip Blank Water Wipes Wastewater	SW TB W WP WW	-		No.	Size (oz.)	Type (Glass/ Plastic)	AS	87	SS	Ŵ	5	50
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Special Remarks:	Samples	must be prese	erved	l on ice	afte	er sample	collecti	on an	d transpo	rted in ice cl	nest.	,	<u> </u>			I	<u> </u>		
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						Facilities a	re also avail	able at:											

Status: Final

Page 1/8

Date of Issue: 15-Sep-2006

ConocoPhillips

MATERIAL SAFETY DATA SHEET

Spent Sulfuric Acid

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Spent Sulfuric Acid

Synonyms:

Bayway - Spent Alkylation Acid Bayway - Spent Sulfuric Acid

LAR - Spent Acid

LAR - Spent Sulfuric Acid

LAR - Sulfuric Acid, Alkylation (Spent)

Wood River - Spent Alky Sulfuric Acid - 830294

Intended Use:

Spent acid

Responsible Party:

ConocoPhillips 600 N. Dairy Ashford

Houston, Texas 77079-1175

Emergency Overview

24 Hour Emergency Telephone Numbers:

Spill, Leak, Fire or Accident Call CHEMTREC:

North America: (800) 424-9300 Others: (703) 527-3887 (collect)

California Poison Control System: (800) 356-3129

Health Hazards/Precautionary Measures: May cause severe eye and skin burns. Do not breathe vapor or mist. Use with ventilation adequate to keep exposure below recommended limits, if any. May be harmful or fatal if inhaled or swallowed. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Do not taste or swallow. Wear appropriate personal protective equipment.

Physical Hazards/Precautionary Measures: Reacts violently with water and organic materials with evolution of heat. Liquid will not burn readily, but flammable vapors may be present. Avoid contact with clothing and other combustible material. Keep away from heat, sparks, flames, static electricity or other sources of ignition. Avoid contact with water.

Appearance:

Red to black

Physical Form:

Liquid

Odor:

Sour, acrid

NFPA 704 Hazard Class

Health: 3

Flammability: 3

Instability: 2

Legend: 0 (Least), 1 (Slight), 2 (Moderate), 3 (High), 4 (Extreme)

(Hydrocarbon vapors, if present)

Status: Final

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Date of Issue: 15-Sep-2006

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Concentration (wt %)	ACGIH:	OSHA:	NIOSH:	Other:
Sulfuric Acid 7664-93-9	84-94	1 mg/m³ TWA 3 mg/m³ STEL	1 mg/m³ TWA	15 mg/m³ IDLH	
Petroleum Hydrocarbons (Unknown Composition) NONE	5-10	5mg/m³ TWA 10 mg/m³ STEL	5 mg/m³ TWA	2500 mg/m³ IDLH	as Oil Mist, if Generated
		0.2 mg/m³ TWA	0.2 mg/m³ TWA	80 mg/m³ IDLH	Coal Tar Pitch Volatiles as Benzene Soluble CAS: 65996-93-

NON-HAZARDOUS COMPONENTS									
Component	Concentration (wt %)	ACGIH:	OSHA:	NIOSH:	Other:				
Soil/Sand NONE	3-4	10 mg/m³ (Total) TWA 3 mg/m³ (Resp.) TWA	15 mg/m³ (Total) TWA 5 mg/m³ (Resp.) TWA	NE	as Nuisance Dust, If Generated				
Water (Process) 7732-18-5	3-4	NE	NE	NE					

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

1%=10,000 PPM. NE=Not Established

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye: Corrosive. Contact may cause severe irritation, eye burns, and permanent eye damage.

Skin: Corrosive. Contact may cause severe irritation, skin burns, and permanent skin damage. No information regarding skin absorption, however, corrosivity of material suggests significant skin absorption will occur.

Inhalation (Breathing): Corrosive and highly toxic. May be harmful or fatal if inhaled. May cause severe irritation and burns of the nose, throat, and respiratory tract.

Ingestion (Swallowing): Corrosive. May be harmful or fatal if swallowed. May cause severe irritation and burns of the mouth, throat, and digestive tract.

Signs and Symptoms: Effects of overexposure may include severe irritation and burns of the mouth, nose, throat, respiratory, and digestive tract, nausea, vomiting, diarrhea, abdominal pain, wheezing, coughing, bronchitis (lung inflammation), chest pain, pulmonary edema (accumulation of fluids in the lungs), perforation of the stomach.

Cancer: There is inadequate information available on the cancer hazard of this material. However, a component is a possible cancer hazard (see Section 11).

Target Organs: Inadequate evidence available for this material. See Section 11 for target-organ toxicity information of individual components, if any.

Developmental: Inadequate data available for this material.

MSDS Code: 720010

Status: Final Date of Issue: 15-Sep-2006

Other Comments: This material contains petroleum hydrocarbons of unknown composition. As a general class, petroleum hydrocarbons are only mildly irritating to the skin and eyes and have low acute toxicity. Symptoms of overexposure may include irritation of the respiratory and digestive tract, vomiting, diarrhea, and signs of nervous system depression (e.g., headache, dizziness, drowsiness, loss of coordination, and fatigue). Catalytic and thermocracked distillates can be more irritating and toxic (See Section 11).

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Prolonged or repeated overexposure to acid mists has been reported to cause erosion of tooth enamel. Sulfuric acid releases toxic and irritating fumes of sulfur oxides when heated.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may include skin disorders, eye disorders, respiratory (asthmalike) disorders.

4. FIRST AID MEASURES

Eye: Immediately move victim away from exposure and into fresh air. If irritation or redness develops, flush eyes with clean water and seek immediate medical attention. For direct contact, immediately hold eyelids apart and flush the affected eye(s) with clean water for at least 30 minutes. Seek immediate medical attention.

Skin: Immediately flush affected area(s) with large amounts of water while removing contaminated shoes, clothing, and constrictive jewelry. If skin surface is damaged, apply a clean dressing and seek immediate medical attention. If skin surface is not damaged, cleanse the affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops, seek immediate medical attention.

Inhalation (Breathing): Immediately move victim away from exposure and into fresh air. If respiratory symptoms or other symptoms of exposure develop, seek immediate medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion (Swallowing): ***Do not induce vomiting. Corrosive material. Acid burns.*** If victim has any breathing difficulties, call for emergency help immediately. If victim is conscious and alert, immediately rinse mouth with water and dilute the ingested material by giving one glass of milk or water to drink; 1/2 glass to children under 5. Call a physician or poison center. If possible, do not leave victim unattended. ***Do not induce vomiting. Corrosive material.*** If victim has any breathing difficulties, call for emergency help immediately. If victim is conscious and alert, immediately rinse mouth with water and dilute the ingested material by giving one glass of milk or water to drink; 1/2 glass to children under 5. Call a physician or poison center. If possible, do not leave victim unattended.

Notes to Physician: This material is corrosive and may cause acid burns, including gastroesophageal perforation. Late complications of severe acid burns include esophageal, gastric, or pyloric strictures and stenosis. The possibility of sulfur dioxide exposure should be considered when evaluating respiratory symptoms associated with the inhalation of this material.

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5. FIRE-FIGHTING MEASURES

Flammable Properties:

Flash Point:

< 100°F / 38°C

Test Method:

Test Method Unknown

OSHA Flammability Class:

Combustible liquid

LEL (vol % in air):

No data

UEL (vol % in air):

No data No data

Autoignition Temperature:

Unusual Fire & Explosion Hazards: Liquid will not burn readily, but flammable vapors may be present. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can rupture in the heat of a fire. Contact with common metals can generate hydrogen, which can form flammable mixtures with air. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can rupture in the heat of a fire.

Extinguishing Media: Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.Do not use water.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

6. ACCIDENTAL RELEASE MEASURES

Flammable. Keep all sources of ignition and hot metal surfaces away from spill/release. The use of explosion-proof electrical equipment is recommended.

Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8).

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Use foam on spills to minimize vapors (see Section 5). Spilled material may be absorbed into an appropriate absorbent material, such as soda ash.

Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (phone number 800-424-8802).

Status: Final

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7. HANDLING AND STORAGE

Handling: Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel to another. Can accumulate static charge by flow or agitation. Can be ignited by static discharge. The use of explosion-proof electrical equipment is recommended and may be required (see appropriate fire codes). Refer to NFPA-704 and/or API RP 2003 for specific bonding/grounding requirements. Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Sections 2 and 8).

Do not wear contaminated clothing or shoes. Keep contaminated clothing away from sources of ignition such as sparks or open flames. Use good personal hygiene practices.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

Storage: Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post area "No Smoking or Open Flame." Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section 2), additional engineering controls may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used (see appropriate electrical codes).

Personal Protective Equipment (PPE):

Respiratory: A NIOSH certified full face air purifying respirator with a Type 95 (R or P) particulate filter in combination with an acid gas cartridge may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2).

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a NIOSH approved self-contained breathing apparatus (SCBA) or equivalent operated in a pressure demand or other positive pressure mode if there is potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin: The use of butyl rubber or Viton gloves is advised to prevent skin contact, possible irritation and skin damage (see glove manufacturer literature for information on permeability). Depending on conditions of use, apron and/or arm covers may be necessary.

Eye/Face: The use of a face shield and chemical goggles to safeguard against potential eye contact, irritation, or injury is recommended.

Other Protective Equipment: Eye wash and quick-drench shower facilities should be available in the work area. Thoroughly clean shoes and wash contaminated clothing before reuse. It is recommended that impervious clothing be worn when skin contact is possible.

Suggestions for the use of specific protective materials are based on readily available published data. Users should check with specific manufacturers to confirm the performance of their products.

Status: Final

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Date of Issue: 15-Sep-2006

9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

Appearance: Physical Form:

Odor:

Odor Threshold:

:Ha

Vapor Pressure (mm Hg): Vapor Density (air=1): Boiling Point/Range:

Boiling Point/Range: Solubility in Water:

Partition Coefficient (n-octanol/water) (Kow): Specific Gravity: Bulk Density:

Percent Volatile: Evaporation Rate (nBuAc=1):

Flash Point: Test Method: LEL (vol % in air):

UEL (vol % in air): Autoignition Temperature: Decomposition Temperature: Red to black Liquid Sour, acrid No data 1-2

<1 No data > 212°F / 100°C

Complete No data 1.7-1.8 14.58 lbs/gal

50% No data

< 100°F / 38°C Test Method Unknown

No data No data No data

No data

10. STABILITY AND REACTIVITY

Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Corrosive to metal. Can react with common metals generating hydrogen gas. Water reactive. Contact with water can generate heat.

Conditions to Avoid: Heat will increase overall reactivity.

Materials to Avoid (Incompatible Materials): Highly reactive and capable of igniting finely divided combustible materials on contact. Extremely hazardous in contact with many materials, particularly carbides, chlorates, fulminates, nitrates, picrates, powdered metals, and other combustible materials. Contact with hypochlorites (e.g., chlorine bleach), sulfides, or cyanides will produce toxic gases. Water reactive. Reacts violently with water, alkaline materials, or organic materials with evolution of heat. Corrosive to metal. Attacks many metals, releasing hydrogen gas (see Section 5).

Hazardous Decomposition Products: Combustion can yield oxides of sulfur and sulfuric acid. Decomposes to water and sulfur trioxide above 644°F.

Hazardous Polymerization: May occur. Hydrocarbon contaminants in the spent acid may polymerize.

11. TOXICOLOGICAL INFORMATION

Chronic Data:

Sulfuric Acid 7664-93-9

Carcinogenicity: The International Agency for Research on Cancer (IARC) classified "strong inorganic acid mists containing sulfuric acid" as a Category I carcinogen (known human carcinogen) based upon epidemiology studies demonstrating excess pharyngeal and lung cancer in chronically exposed workers.

Petroleum Hydrocarbons (Unknown Composition) NONE

Carcinogenicity: Certain petroleum hydrocarbon mixtures such as crude oil, untreated vacuum distillates, catalytically cracked distillates, and untreated lube stocks have been shown to cause skin cancer in laboratory animals.

Target Organs: As a general rule, petroleum hydrocarbons are not notable for their ability to cause specific organ damage. However, certain distillates from catalytic and thermocracked processes have caused liver and kidney damage, developmental toxicity and/or male reproductive toxicity in laboratory animals.

Acute Data:

Sulfuric Acid 7664-93-9

Dermal LD50= No information available Inhalation LC50= 510 mg/m³ 2 Hr. (Rat) Oral LD50= 2140 mg/kg (Rat)

Status: Final

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Petroleum Hydrocarbons (Unknown Composition) NONE

Dermal LD50= No information available Inhalation LC50= No information available Oral LD50= No information available

12. ECOLOGICAL INFORMATION

Not evaluated.

13. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, would be a RCRA "characteristic" hazardous waste due to the characteristic(s) of ignitability (D001), corrosivity (D002) and reactivity (D003). If the spilled or released material impacts soil, water, or other media, characteristic testing of the contaminated materials may be required prior to their disposal. Further, this material, once it becomes a waste, is subject to the land disposal restrictions in 40 CFR 268.40 and may require treatment prior to disposal to meet specific standards. Consult state and local regulations to determine whether they are more stringent than the federal requirements.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

14. TRANSPORT INFORMATION

U.S. Department of Transportation (DOT)

Shipping Description: Corrosive liquids, flammable, n.o.s.,(Sulfuric acid, Petroleum distillate), 8 (3), UN2920, II, **
Non-Bulk Package Marking: Corrosive liquids, flammable, n.o.s.,(Sulfuric acid, Petroleum distillate), UN2920

Non-Bulk Package Labeling: Corrosive, Flammable liquid

Bulk Package/Placard Marking: Corrosive/2920 Packaging - References: None, 173.202, 173.243

Hazardous Substance: **Enter the letters "RQ" if one or more hazardous substances is present in a quantity, in one package,

which equals or exceeds the reportable quantity (RQ) shown for the hazardouse substance. See Section 15 for RQ's.

Emergency Response Guide: 132

International Maritime Dangerous Goods (IMDG)

Shipping Description: UN2920, Corrosive liquids, flammable, n.o.s., (Sulphuric acid, Petroleum distillate), 8 (3), II, (38° C)

Non-Bulk Package Marking: Corrosive liquids, flammable, n.o.s., (Sulphuric acid, Petroleum distillate), UN2920

Labels: Corrosive, Flammable liquids
Placards/Marking (Bulk): Corrosive/2920

Packaging - Non-Bulk: P001

EMS: F-E, S-C

International Civil Aviation Org. / International Air Transport Assoc. (ICAO/IATA)

UN/ID #: UN2920

Proper Shipping Name: Corrosive liquids, flammable, n.o.s., (Sulphuric acid, Petroleum distillate)

Hazard Class/Division: 8

Packing Group: || Subsidiary risk: 3

Non-Bulk Package Marking: Corrosive liquids, flammable, n.o.s., (Sulphuric acid, Petroleum distillate), UN2920

Labels: Corrosive and Flammable liquid

ERG Code: 8F

	LTD. QTY	Passenger Aircraft	Cargo Aircraft Only
Packaging Instruction #:	Y808	808	812
Max. Net Qty. Per Package:	0.5 L	1 L	30 L

Status: Final

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Date of Issue: 15-Sep-2006

15. REGULATORY INFORMATION

U.S. Regulations:

CERCLA/SARA - Section 311/312 (Title III Hazard Categories)

Acute Health:

Chronic Health:

Yes

Fire Hazard:

No

Pressure Hazard:

No

Reactive Hazard:

CERCLA/SARA - Section 313 and 40 CFR 372:

This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372:

Sulfuric Acid.......7664-93-9...... 84-94%

EPA (CERCLA) Reportable Quantity (in pounds):

Sulfuric Acid......7664-93-9......1000

CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds):

This material contains the following chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372:

-- None Known --

California Proposition 65:

Warning: This material may contain the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

-- None Known --

Carcinogen Identification:

This material has not been identified as a carcinogen by NTP, IARC, or OSHA. See Section 11 for carcinogenicity information of individual components, if any.

TSCA:

All components are listed on the TSCA inventory.

U.S. Export Control Classification Number: EAR99

16. OTHER INFORMATION

Issue Date:

15-Sep-2006

Previous Issue Date:

17-Sep-2001

Product Code:

None

Revised Sections or Basis for Revision:

Composition (Section 2) Periodic review and update

Previous Product Code:

None

MSDS Code:

728010

Disclaimer of Expressed and implied Warranties:

The information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

Laboratory Analysis Report

Job ID: 08110566



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name:

1108-61

Report To:

Client Name:

Attn:

CES Environmental

Godefroy Gbery

Client Address:

4904 Griggs Rd

City, State, Zip: Houston, Texas, 77021 P.O.#.: 1108-61

Total Number of Pages:

Sample Collected By:

Date Collected: 11/21/08

A&B Labs has analyzed the following samples...

Client Sample ID

RV2

Matrix

A&B Sample ID

Liquid

08110566.01

Sonia West

Released By: Sonia West Title:

Senior Project Manager

Date:

11/25/2008



This Laboratory is NELAP (T104704213-08-TX) accredited. Effective: 07/01/2008; Expires: 06/03/2009

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client.

Date Received: 11/21/2008 16:40

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Post-Wt

Pre-Wt

RegLimit

RptLimit

RPD

surr

Т

ppm

Q

Post Weight

Qualifier

parts per million

Previous Weight

Regulatory Limit

Reporting Limit

Surrogate

Time

Relative Percent Difference



Job ID: 08110566

Date:

11/25/2008

General Term Definition

Back-Wt

Back Weight

BRL

Below Reporting Limit

cfu

colony-forming units Concentration

Conc. D.F.

Dilution Factor

Front-Wt

Front Weight

LCS

Laboratory Check Standard

LCSD

Laboratory Check Standard Duplicate

MS

Matrix Spike

MSD

Matrix Spike Duplicate

MW

Molecular Weight

TNTC Too numerous to count

Qualifier Definition

D1

Sample required dilution due to matrix effects.

LABORATORY TEST RESULTS



Job ID: 08110566

Date 11/25/2008

Attn: Godefroy Gbery

Client Name: Project Name: **CES Environmental**

1108-61

Client Sample ID:

Date Collected:

RV2

11/21/08

Job Sample ID:

Sample Matrix

08110566.01 Liquid

Time Collected:

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit Re	eg Limit Q	Date Time	Analyst
EPA 625	Semivolatile Organic Compounds							
	Phenoi	79.3	mg/L	800	8	D1	11/24/08 12:08	ML
	2,4,6-Tribromophenol(surr)	79.6	%	800	19-122		11/24/08 12:08	ML
	2-Fluorobiphenyl(surr)	90.4	%	800	30-115		11/24/08 12:08	ML
	2-Fluorophenol(surr)	75.2	%	800	15-115		11/24/08 12:08	ML
	Nitrobenzene-d5(surr)	96.8	%	800	23-120		11/24/08 12:08	ML
	Phenol-d6(surr)	90	%	800	10-130	The second second	11/24/08 12:08	ML
	p-Terphenyl-d14(surr)	68.4	%	800	18-137	and the second of the second o	11/24/08 12:08	ML

QUALITY CONTROL CERTIFICATE



Job ID: 08110566

Date:

11/25/2008

Analysis: Semivolatile Organic Compounds

Method:

EPA 625

Reporting Units: mg/L

QC Batch ID: Qb08112424

Created Date: 11/24/08

Created By: Mli

Samples in This QC Batch: 08110566.01

Extraction:

PB08112404

Prep Method: EPA 625

Prep Date: 11/24/08 08:00 Prep By:

Lwang

QC Type: Method Blank				WE STATE		
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Phenol	108-95-2	BRL	mg/L	1	0.01	

QC Type: LCS and LCSI)						Marie di La Porte di Lat			
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Phenol	0.05	0.022	44	0.05	0.023	46	4.44	35	D-111	

Sample Condition Checklist



Date: 11/25/08

A&B	JobID :	081105	56	Da	te Received	: 11,	/21/2008		Time	Received:	4:40PM	-	
Clien	t Name :	CES Env	ironmen	tal					1				
Temp	perature :	22.6°C		Sa	mple pH:	N/	A						
	4.55		i de la companya de l										100
					Ch	eck P	oints					Yes	No
1.	Cooler sea	al present a	ınd signe	d.	18			September 1995 Septem				N/A	
2.	Sample(s)) in a coole	г.										х
3.	If yes, ice	in cooler.						amanan maran muun muun (2722)					х
4.	Sample(s) received v	with chai	n-of-custo	dy.	***************************************						Х	
5.	C-O-C sig	ned and da	ted.									Х	
6.	Sample(s) received \	with sign	ed sample	custody sea	al.						N/A	
7.	Sample co	ontainers a	rrived int	act. (If no	comment).							х	
8.	Matrix :	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	_
<u>.</u>				V									<u> </u>
9.	Sample(s) were rece	ived in a	ppropriate	container(s).	##.p. # # # # # p. p. p. p. p. p. p. p. p. p. p. p. p.			***************************************		X	
10.	Sample(s) were rece	ived with	proper p	reservative							ļ	
11.	All sample	es were log	ged or la	beled.					WHITE HARMAN AND AND AND AND AND AND AND AND AND A			X	
12.	Sample II) labels ma	tch C-0-(C ID's	***************************************							X	
13.	Bottle cou	int on C-O-	C matche	s bottles 1	found.							. X	
14.	Sample ve	olume is su	fficient f	or analyse:	s requested.							X	
15.	Samples v	were receiv	ed withir	the hold	time.							X	
16.	VOA vials	completely	filled.									N/A	
17.	Sample a	ccepted.										X	
Comi	ments : Inc	clude action	ns taken 1	to resolve	discrepancie	s/prol	olem:						
										-			
								7 2 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5					
Rece	eived by:	Revathi					Check in	n by/date :	Revathi	/ 11/21/2008			
	78.00.7	P (H				4					***************************************		
					-								
	: 713-453-	5050					····				ww.ablab		

Page 6 of 6



Windows XP Printer Test Page

Congratulations!

Submitted Time: 5:00:38 PM 11/25/2008

If you can read this information, you have correctly installed your HP LaserJet M1522 MFP Series PCL 6 on COMP29.

The information below describes your printer driver and port settings.

COMP29 Computer name: Printer name: HP LaserJet M1522 MFP Series PCL 6 Printer model: HP LaserJet M1522 MFP Series PCL 6 Color support: Yes Port name(s): HPLaserJetM1522nMFP Data format: RAW UNIDRV.DLL Driver name: Data file: Config file: Help file: hpc15226.gpd hpzpi5mc.dll UNIDRV.HLP Driver version: 6.00 Windows NT x86 Environment: Default datatype: RAW Additional files used by this driver: C:\WINDOWS\System32\spoo]\DRIVERS\W32X86\3\hpc15226.XML C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpzsc5mc.DTD
C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpc1522c.INI
C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpc1522c.Exp
C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpc1522.exp
C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpc1522.exp (61.072.467.21) C:\WINDOWS\System32\spool\DRIVERS\W32x86\3\hpzpe5mc.DLL (61.072.467.21) C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpzst5mc.DLL
C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpzur5mc.dll
C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpzur5mc.dll
C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpzls5mc.DLL
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C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpzss5mc.DLL
C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpzlxl.DLL
(vbl_wcp_d2_drivers.060616-1619))
C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\nil GDD (61.072.467.21) (61.072.467.21) (61.072.467.21)(61.072.467.21)(6.0.5479.0 C:\WINDOWS\System32\spool\DRIVERS\W32x86\3\pjl.GPD C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\pclxl.GPD C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\HPU5SNP.DLL (4.4.0.1) C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\HPU5SNPL.DLL C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpmssnp.dem (4.4.0.0)C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\UNIRES.DLL (6.0.6000.16386 (vista_rtm.061101-2205)) C:\WINDOWS\System32\spoo1\DRIVERS\W32X86\3\UNIDRVUI.DLL (6.0.6000.16386 (vista_rtm.061101-2205)) C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\STDNAMES.GPD
C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpz3r5mc.dll
C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpz6r5mc.DLL (61.072.467.21) (61.072.467.21) C:\WINDOWS\System32\spoo]\DRIVERS\W32X86\3\hpzbr5mc.dll (61.072.467.21) C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpz6m5mc.GPD
C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpz6m5mc.GPD
C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpzm5mc.GPD
C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpzev5mc.DLL
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C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpzev5mc.DLL (61.072.467.21) C:\WINDOWS\System32\spoo]\DRIVERS\W32X86\3\hpcdmc32.DLL (1, 0, 2, 35)C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpbcfgre.DLL
C:\WINDOWS\System32\spool\DRIVERS\W32X86\3\hpzc35mc.DL (1, 0, 0, 69) (61 072 467 21)

MATERIAL SAFETY DATA BULLETIN

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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MCP 1397 SUPPLIER: EXXONMOBIL CHEMICAL COMPANY SYNTHETICS DIVISION 2195 ROUTE 27

EDISON, NJ 08818

24 - Hour Emergency (call collect): 609-737-4411 Product and MSDS Information: 732-321-6048

CHEMTREC:

800-424-9300

MCP 1397

202-483-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: SULFURIZED ISOBUTYLENE

INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.

OTHER POTENTIALLY HAZARDOUS INGREDIENTS:

Substance Name Wt3 SULFURIZED ALKENE 100

See Section 15 for European Label Information.

See Section 8 for exposure limits (if applicable).

ExonMobil

MATERIAL SAFETY DATA BULLETIN

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3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined to be hazardous. EFFECTS OF OVEREXPOSURE: Respiratory irritation, dizziness, nausea, loss of consciousness. Prolonged repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis.

EMERGENCY RESPONSE DATA: Amber Liquid. Material is combustible.

Exposure to fire can generate highly toxic fumes. DOT ERG No.:
128 . SEC: 2

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

INHALATION: Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, use mouth to mouth resuscitation.

INGESTION: Do not induce vomiting. Get medical assistance.
NOTE TO PHYSICIANS: Material if aspirated into the lungs may cause chemical pneumonitis. Treat appropriately.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.
SPECIAL FIRE FIGHTING PROCEDURES: Use water to keep fire exposed
containers cool. If a leak or spill has not ignited, use water
spray to disperse the vapors and to protect personnel attempting
to stop leak. Water spray may be used to flush spills away from
exposures. Prevent runoff from fire control or dilution from
entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire
fighters must use self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION PRZARDS: Material is combustible. Exposure
to fire can generate highly toxic fumes. Flash Point C(F):
81(178) (ASTM D-93). Flammable limits - LEL: NE, UEL: NE.
NFPA HAZARD ID: Health: 2, Flammability: 2, Reactivity: 0
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Sulfur oxides.

ExonMobil

MATERIAL SAFETY DATA BULLETIN

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6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300

CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Eliminate all ignition sources. Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up with spark-resistant shovel and remove to appropriate waste disposal facility in accordance with current applicable laws and regulations.

ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.

PERSONAL PRECAUTIONS: See Section 6

7. HANDLING AND STORAGE

HANDLING: Use in well ventilated area away from all ignition sources.

Avoid sparking conditions. Ground and bond all transfer

STORAGE: Store in a cool area away from all ignition sources. Store in a cool area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Use local exhaust over heating operations. Use in well ventilated area. Ventilation desirable and equipment should be explosion proof.

explosion proof.
RESPIRATORY PROTECTION: Use appropriate respiratory protective equipment during heating operations.

equipment during heating operations.

EYE PROTECTION: Normal industrial eye protection practices should be employed.

SKIN PROTECTION: If prolonged or repeated skin contact is likely, impervious gloves should be worn. Good personal hygiene practices should always be followed.

EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid COLOR: Amber ODOR: Mercaptan ODOR THRESHOLD-ppm: NE ph: NA

(Section continued next page)

EXonMobil

MATERIAL SAFETY DATA BULLETIN

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BOILING POINT C(F): NE

MELTING POINT C(F): NA

FLASH POINT C(F): 81(178) (ASTM D-93)

FLAMMABILITY: NE

AUTO FLAMMABILITY: NE

EXPLOSIVE PROPERTIES: NA

OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mmHg 20 C: NE

VAPOR DENSITY: NE

EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 1.03

SOLUBILITY IN WATER: Negligible

PARTITION COEFFICIENT: NE

VISCOSITY AT 40 C, cst: 5.3

VISCOSITY AT 100 C, cst: 1.7

POUR POINT C(F): < -64(-83)

FREEZING POINT C(F): NE

VOLATILE ORGANIC COMPOUND: NE

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.
CONDITIONS TO AVOID: Heat, sparks, flame and build up of static electricity.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Sulfur oxides.
HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL DATA

ORAL TOXICITY (RATS): Practically non-toxic.

DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). --Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater than 5 mg/l). --Based on testing of similar products and/or the components.

EYE IRRITATION (RABBITS): Practically non-irritating. Eye irritation scores: 6.0 at 24 hours, 3.3 at 48 hours, 2.3 at 72 hours

SKIN IRRITATION (RABBITS): Practically non-irritating. Primary irritation score: 0.8/8

OTHER ACUTE TOXICITY DATA: ***DOT skin corrosivity (4 hours):

Negative ***

---GENETIC TOXICOLOGY (SUMMARY)--***Mouse Lymphoma (L5178Y/TK+/-) Assay: Positive. ***Negative Ames

EXonMobil

MATERIAL SAFETY DATA BULLETIN

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12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: After 28 days, 3.3% of this material was converted to CO2 in the OECD 301B (Modified Sturm) test.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

14. TRANSPORT INFORMATION

USA DOT:

SHIPPING NAME:

Combustible Liquid, n.o.s. (contains

SULFURIZED ISOBUTYLENE)
COMBUSTIBLE LIQUID

HAZARD CLASS & DIV: ID NUMBER:

NA1993 128

ERG NUMBER: PACKING GROUP:

PG III NE

STCC: DANGEROUS WHEN WET: ne No

POISON:

No NA

LABEL(s): PLACARD(s):

Combustible

PRODUCT RQ: MARPOL III STATUS: NA

In accordance with 49 CFR 173.150(f)(2), non-bulk quantities of this material (<119 gallons per container) may be shipped as non regulated for USA domestic shipments.

RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO.

(Section continued next page)

NA (1.10)

ExonMobil

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IATA: NOT REGULATED BY IATA.

15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, METI, and DSL.

EU Labeling:

Symbol: Not applicable.

Risk Phrase(s): Not applicable.

Safety Phrase(s): S24-62.

Avoid contact with skin. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Contains: Sulfurized Isobutylene.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: FIRE CHRONIC

This product contains no chemicals subject to the supplier notification requirements of SARA (313) toxic release program.

The following product ingredients are cited on the lists below:
CHEMICAL NAME
CAS NUMBER
LIST CITATIONS

*** NO REPORTABLE INGREDIENTS ***

--- REGULATORY LISTS SEARCHED --1=ACGIH ALL 6=IARC 1 11=TSCA 4 16=CA P65 CARC 21=LA RTK
2=ACGIH A1 7=IARC 2A 12=TSCA 5a2 17=CA P65 REPRO 22=MI 293
3=ACGIH A2 8=IARC 2B 13=TSCA 5e 18=CA RTK 23=MN RTK
4=NTP CARC 9=OSHA CARC 14=TSCA 6 19=FL RTK 24=NJ RTK
5=NTP SUS 10=OSHA 2 15=TSCA 12b 20=IL RTK 26=RI RTK

Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

ExonMobil

MATERIAL SAFETY DATA BULLETIN

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16. OTHER INFORMATION

Precautionary Label Text:

CONTAINS SULFURIZED HYDROCARBONS

CAUTION!

COMBUSTIBLE LIQUID AND VAPOR. MAY CAUSE NOSE, THROAT AND LUNG IRRITATION, DIZZINESS, NAUSEA, LOSS OF CONSCIOUSNESS. LOW VISCOSITY MATERIAL-IF SWALLOWED, MAY BE ASPIRATED AND CAN CAUSE SERIOUS OR FATAL LUNG DAMAGE.

PROLONGED, REPEATED SKIN CONTACT MAY CAUSE IRRITATION.

Keep away from heat and flame. Avoid contact with skin or clothing. Avoid breathing vapor. Keep container closed. Use with adequate ventilation.

FIRST AID: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician immediately. In case of contact, wash skin with soap and water. Remove contaminated clothing. Call a physician if irritation persists. Wash clothing before reuse. If swallowed, seek immediate medical attention. Do not induce vomiting. Only induce vomiting at the instruction of a physician.

For industrial use only. Not intended or suitable for use in or around a household or dwelling.

Empty container may contain product residue, including flammable or explosive vapors. Do not cut, puncture, or weld on or near container. All label warnings and precautions must be observed until container has been thoroughly cleaned or destroyed.

Refer to product Material Safety Data Bulletin for further safety and health information.

USE: EXTREME PRESSURE ADDITIVE

NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES ARE NOT FORMULATED TO CONTAIN PCBS.

INGREDIENT

CAS NUMBER

1-PROPENE, 2-METHYL-, SULFURIZED

68511-50-2

For Internal Use Only: MHC: 0 1* 0* 0 1, MPPEC: C, TRN: 6013973-00, REQ: CHEMICAL PRODUCTS, SAFE USE: C

EHS Approval Date: 20APR1999

(Section continued next page)



Material Safety Data Sheet

Arkema Inc.

1 PRODUCT AND COMPANY IDENTIFICATION

Thio and Fine Chemicals

Arkema Inc.

2000 Market Street

Philadelphia, PA 19103

Information Telephone Numbers

EMERGENCY PHONE NUMBERS:

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

Medical: Rocky Mountain Poison Control Center

(866) 767-5089 (24Hrs)

Phone Number

Available Hrs

Customer Service

1-800-628-4453

8:30 to 5:30 EST

Product Name

Caustic Soda, Shipment Grade

Product Synonym(s)

Chemical Family

Alķali

Chemical Formula

NAOH

Chemical Name

Sodium Hydroxide

EPA Reg Num Product Use

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	6	CAS RegistryNumber	Typical %	OSHA
Carbon disulfide		75-15-0	<0.1%	Υ
Sodium hydroxide		1310-73-2	10-15%	Υ
Water		7732-18-5	85-90%	. N

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

This material is classified as hazardous under Federal OSHA regulation.

The components of this product are all on the TSCA Inventory list.

3 HAZARDS IDENTIFICATION

Emergency Overview

Orange slightly turbid liquid with foul odor.

DANGER!

FLAMMABLE LIQUID AND VAPOR.

CAUSES EYE, SKIN AND RESPIRATORY TRACT BURNS. MAY CAUSE BLINDNESS.

CAUSES SEVERE DIGESTIVE TRACT BURNS.

EVEN DILUTE SOLUTIONS MAY CAUSE BURNS.

Potential Health Effects

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. This material is a strong alkali that can be destructive to tissue producing severe burns which are not immediately painful or visible. Contact with body tissues may produce deep ulceration, scarring or loss of sight. Concentrations as low as 2-3% can cause injury. Dermatitis (inflammation of the skin) and superficial skin damage can result from repeated or prolonged contact with very dilute solutions. High levels of dust or mist may be corrosive to mucous membranes producing eye or lung injury and chemical pneumonia. Lower concentrations may produce irritation of eyes, nose or upper respiratory tract with coughing, sore throat and shortness of breath. Prolonged exposure may result in ulceration of the nasal passages. If swallowed, this material may cause severe internal injury, characterized by pain in the mouth

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PRKEMA.

Caustic Soda, Shipment Grade

Material Safety Data Sheet

Arkema Inc.

and stomach, vomiting, and breathing difficulties. Medical conditions which may be aggravated by exposure to this material include lung disease or limited respiratory capacity

4 FIRST AID MEASURES

IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.

IF ON SKIN, immediately flush with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Destroy contaminated shoes.

IF SWALLOWED, do NOT induce vomiting. Give water to drink. Get medical attention immediately. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5 FIRE FIGHTING MEASURES

Fire and Explosive Properties

Auto-Ignition Temperature

NE

Flash Point

70 F - >150 F

Flash Point Method

Flammable Limits- Upper

ΝE

Lower NE

Extinguishing Media

Use water spray, carbon dioxide, foam or dry chemical.

Fire Fighting Instructions

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

Fire and Explosion Hazards

Contact with metal can form hydrogen gas. Hydrogen is extremely flammable and can form explosive mixtures with air. Closed containers may explode when heated or contents contaminated with water.

6 ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Stop the leak, if possible. Ventilate the space involved. Contain, vacuum up, place in non-sparking container for disposal. Prevent waterway contamination. Construct a dike to prevent spreading. Collect runoff and transfer to drums or tanks for later disposal. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

7 HANDLING AND STORAGE

Handling

Do not get in eyes, on skin or clothing. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. To avoid rapid temperature rise, violent spattering, or explosive eruptions: always add caustic to water when mixing. Never add water to a caustic when mixing. Heat water to 80-100 F before adding product. Add small amounts of product slowly and evenly over surface of water with constant stirring. Never increase concentration of product by more than 5% with any single

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Material Safety Data Sheet

Arkema Inc.

7 HANDLING AND STORAGE

addition. Water should not exceed 160 F during addition.

Storage

Do NOT store near strong acids.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation if necessary to control exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems. Monitor carbon monoxide and oxygen levels in tanks and enclosed spaces.

Eye / Face Protection

Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.

Skin Protection

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Wear face shield and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse contaminated skin promptly. Wash contaminated clothing and clean protective equipment before reuse. Wash skin thoroughly after handling.

Respiratory Protection

Avoid breathing vapor or mist. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Airborne Exposure Guidelines for Ingredients

Exposure Limit		Value	
Sodium hydroxide			
ACGIH CEILING	-	2 mg/m3	
OSHA TWA PEL	-	2 mg/m3	
Carbon disulfide			
ACGIH Skin designator	<u>-</u> ·	, Y	
ACGIH TWA	-	1 ppm	
OSHA Ceiling PEL	-	30 ppm	
OSHA TWA PEL	-	20 ppm	

⁻Only those components with exposure limits are printed in this section.

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⁻Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.

⁻ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.

⁻WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.



Material Safety Data Sheet

Arkema Inc.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor

Orange slightly turbid liquid with foul odor.

Hq

ΝE

Specific Gravity

1.073 @ 15 C

Vapor Pressure

30 @ 100 F

Vapor Density Melting Point NA NA

Freezing Point

NA

Boiling Point

NE NE

Solubility In Water

99.98%

10 STABILITY AND REACTIVITY

Stability

This material is chemically stable under normal and anticipated storage and handling conditions.

Incompatibility

Reacts violently or explosively with water, acids and organic materials such as chlorinated hydrocarbons. Toxic carbon monoxide gas can form upon contact with food or beverage products.

Hazardous Decomposition Products

Will react with some metals such as aluminum, tin or zinc to generate hydrogen gas. Hydrogen gas can result in explosive hazards in confined spaces.

11 TOXICOLOGICAL INFORMATION

Toxicological Information

Data on this material and/or its components are summarized below.

Sodium Hydroxide

Single exposure (acute) studies indicate that this material is slightly toxic if absorbed through the skin (rat LD50 1,350 mg/kg; dry sodium hydroxide) and corrosive to rabbit eyes and skin. Many publications in the scientific literature confirm that this material is corrosive to all tissues. Repeated inhalation resulted in lung damage in rats. No tumors were seen in long-term animal studies. No genetic changes were observed in tests using bacteria.

No significant increases in mortality in relation to duration or intensity of exposures were reported in an epidemiologic study of a small group of workers exposed to caustic dust for 30 years or more. Massive ingestion of this material has been implicated as causing esophageal cancer. Squamous cell carcinomas of the esophagus occurred approximately 12-42 years later in individuals who survived accidental childhood ingestion and are likely due to the tissue destruction and possible scarring of the esophagus rather than a direct effect of this material.

Carbon Disulfide

Single exposure (acute) studies indicate that this material is slightly toxic to rats if swallowed (LD50 3,188 mg/kg) or rabbits if absorbed through skin (LD50 2,025 mg/kg), practically non-toxic to rats if inhaled (1-hr LC50 40 mg/l), and severely irritating to rabbit skin and eyes. The neurological effects of long-term exposure have been documented in occupational populations who were generally exposed to levels of 20 ppm or more in viscose rayon production. Exposed workers have experienced headaches, nausea, dizziness, tiredness, memory loss, sleep disturbances, irritability and other psychological symptoms in the early stages of intoxication. Long- term exposure has resulted in decreased nerve conduction velocities, memory loss,

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Material Safety Data Sheet

Arkema Inc.

11 TOXICOLOGICAL INFORMATION

peripheral neuropathy (numbness) in the lower legs and forearms, tremors, poor coordination and personality disorders. In addition, several studies have shown adverse effects on the heart including increases in atherosclerosis, death from coronary or ischemic heart disease and blood pressure. Other studies have indicated that long-term overexposure can cause adverse effects on the eyes including increased hemorrhages or microaneurysms of the retina. Studies of occupationally exposed workers have suggested that long-term exposure to higher levels may cause reproductive effects. Male workers had decreased libido, reduced sperm count and altered endocrine function and female workers reported menstrual irregularities. Sperm from exposed workers have shown alterations indicative of spermatogenic damage. There is conflicting evidence whether increased pregnancy complications and a higher frequency of spontaneous abortions are related to exposures in female workers.

Animal studies have confirmed neurological effects. Rats exposed for long periods to high levels showed decreased motor conduction velocity, hindlimb motor defects, peripheral nerve swelling and degeneration. Repeated exposure of monkeys has resulted in reduced visual acuity. Following inhalation exposure in male rats, minor reproductive effects such as decreased sperm counts and abnormal mating behavior, but no pathological changes were noted in testes. A two-generation reproduction study in exposed female rats showed no reduction in fertility, but mothers exposed to high dose levels had reduced pup viability. Multiple developmental toxicity studies in rats and rabbits have presented evidence of increased birth defects and embryotoxicity at high dose levels; however, exposures at levels that are not maternally toxic generally do not cause birth defects, although developmental effects have been observed. No genetic changes were observed in tests using bacteria, but have been observed in animal cells.

12 ECOLOGICAL INFORMATION

Ecotoxicological Information

Data on this material and/or its components are summarized below.

Sodium Hydroxide

Data from several species of fish showed a range of tolerance (brook trout > spotfin and Lake Emerald shiners > minnows > mosquitofish > goldfish) that was most likely related to changes in the pH produced by addition of sodium hydroxide to the water. The minimum lethal concentration for minnows, Mayfly larvae and Daphnia was 100 ppm and for Chironomus larvae, 700 ppm.

Carbon Disulfide

This material is moderately toxic to Daphnia magna (LC50 2.1 mg/l). It is moderately toxic to guppies (LC50 4 mg/l) and slightly toxic to green algae (LC50 21 mg/l). It is practically non-toxic to mosquitofish (LC50 135 mg/l) and bacteria (LC50 341 mg/l).

Chemical Fate Information

Data on this material and/or its components are summarized below.

Sodium Hydroxide

No data were available, but this material is a strong alkali that easily dissolves in water with resulting acid/base chemistry.

Product Code: 001938 Revision: 6 Issued: 23 FEB 2007 Page 5 of 7



Material Safety Data Sheet

Arkema Inc.

13 DISPOSAL CONSIDERATIONS

Waste Disposal

Consult with environmental engineer or professional to determine if neutralization is appropriate and for handling procedures for residual materials. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

14 TRANSPORT INFORMATION

DOT Name Flammable Liquid, Corrosive, NOS

DOT Technical Name (Sodium Hydroxide; Carbon Disulfide)

DOT Hazard Class 3, 8
UN Number UN 2924
DOT Packing Group PG II

RQ Sodium Hydroxide 1000# (dry basis); Carbon

Disulfide 100#

DOT Special Information Subsidiary hazard: 8 Corrosive

On a waste manifest, add the word "Waste"

15 REGULATORY INFORMATION

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate (Acute) Health Y Fire Y
Delayed (Chronic) Health N Reactive N

Sudden Release of Pressure N

The components of this product are all on the TSCA Inventory list.

Ingredient Related Regulatory Information:

SARA Reportable Quantities	CERCLA RQ	SARA TPQ	
Sodium hydroxide	1000 LBS		
Water	NE		
Carbon disulfide	100 LBS	10000 LBS	

SARA Title III, Section 313

This product does contain chemical(s) which are defined as toxic chemicals under and subject to the reporting requirements of, Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. See Section 2

Carbon disulfide

SARA Title III, Section 302

This product does contain chemical(s), as indicated below, currently on the Extremly Hazardous Substance List, Section 302, SARA Title III. See Section 2 for further details regarding concentrations and registry numbers.

Carbon disulfide

California Prop 65 - Developmental Toxin

This product does contain the following chemical(s), as indicated below, currently on the California List of Developmental Toxins.

Carbon disulfide

Massachusetts Right to Know

This product does contain the following chemicals(s), as indicated below, currently on the Massachusetts Right to Know Substance List

Product Code: 001938 Revision: 6 Issued: 23 FEB 2007 Page 6 of 7



Material Safety Data Sheet

Arkema Inc.

Massachusetts Right to Know

This product does contain the following chemicals(s), as indicated below, currently on the Massachusetts Right to Know Substance List.

Carbon disulfide

Sodium hydroxide

New Jersey Right to Know

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List.

Carbon disulfide

Sodium hydroxide

Pennsylvania Environmental Hazard

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard List.

Carbon disulfide

Sodium hydroxide

Pennsylvania Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List.

Carbon disulfide

Sodium hydroxide

16 OTHER INFORMATION

Revision Information

Revision Date

23 FEB 2007

Revision Number 6

Supercedes Revision Dated

07-NOV-2006

Revision Summary

Moved from Retired to Active 03.

Kev

NE= Not Established NA= Not Applicable (R) = Registered Trademark

Miscellaneous

NOTE: Toxic carbon monoxide gas can form upon contact with food and beverage products in enclosed spaces and cause death.

Arkema Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of Arkema Inc., Arkema Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

Product Code: 001938 Revision: 6 Issued: 23 FEB 2007 Page 7 of 7

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EPAPA001000705

Services rendered according to published General Terms and Conditions

EPAPA001000707

CHEMTEX

Environmental & Industrial Hygiene Services

3082 25th Street, Port Arthur, TX 77642 Phone: (409) 983-4575, Fax: (409) 982-1522

CHAIN OF CUSTODY RECORD ENVIRONMENTAL ANALYTICAL SERVICES REQUEST

	nvironmental Services iles Root		ADDRESS		outh Gulfway Arthur, TX 77						il: mro	/13)539- ot@ceser ck@cese	vironm			
BILLING CONTAC (If different from al			P. O.	#:	PROJECT NO	:	PROJ	ECT:				SITE/L	OCAT	ION:		
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Facilities also available at: 5544 Leopard St., Corpus Christi, TX 78408; (361)299-9900 chemtexcc@sbcglobal.net and 138 S. Cities Service Hwy., Sulphur, LA 70663 (337) 626-2121 chemtexic@sbcglobal.net

NOTICE (DISCLAIMER: Client has asked Chemtex to perform the analyses listed above, on the samples described herein. Any analytical results, opinions or interpretations which may be provided to Client are based upon the information and material supplied by Client, for whose exclusive and confidential use a report will be made. No person or entity other than Client may rely on any such report. Any such reliance will be unjustified. Any person, other than Client, that reads or relies on any such report, does so at his or her own risk. Chemtex makes no warranty or representation, express or implied, of any type, and expressly disclaims same. Any report provided by Chemtex shall not be reproduced, in whole or in part, without the written approval of Chemtex. In no event shall Chemtex be responsible for any damage greater than the amount that it received for performing some or all of the analyses listed above

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CUSTOMER SERVICE ACKNOWLEDGEMENT

Service Request	ID	SV0901	22042	6	Seq	#	00	_						□ Inco	mplete	☑ C	omplete		
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CUSTOMER SERVICE ACKNOWLEDGEMENT

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CUSTOMER SERVICE ACKNOWLEDGEMENT

Service Request ID	SV0901160193	Se	q#	00							Incomplete	⊡ Co	mplete	
Work Site Information Customer Number U0354003 Customer Name CES ENVIRO Address 1 2420 GULFV Address 2	51001	pdate 🔽 Special Instructions see	below		O.D. N/A	Che		TY PLUS		Serv				\$0.00
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METTLER TOLEDO Performance Assurance Instrument Certification

This is to certify that

facturer	METTLER	Model	T90	Serial #	5128496284
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ISVA 08 9/12/95 Rev. 02

Certificate No.:

010108-203-012209

Mettier Toledo

Service Business Unit Laboratory

1900 Polaris Parkway Columbus, OH 43240 1-800-METTLER

METTLER TOLEDO

ISO 9001: 2000 Registered

Calibration Certificate

Customer			
Company:	CES ENVIORNMENTAL SERV	ICES	
Address:	2420 GULFWAY DRIVE		:
City:	PORT ARTHUR	State/Province:	TX.
Zip/Postal:	77640		
Device			
Manufacturer:	Mettler Toledo	Asset No.:	N/A
Serial No.:	1128500087	Dept./Room:	LAB
Max Capacity:	220 g	Readability:	0.0001 g
Model:	XS204		
Procedure Statement:	The device referenced in this do with METTLER TOLEDO Work languages are based on the reference to: As Fourthis certificate refers to: As Fourthis certificate refers to:	Instruction VW0152A. Al erenced work instruction	Il translations into other
Test Date:	22-Jan-2009	Next Cal. Due Date.	: 31-Jan-2010
Service Technician:	Jeff Lewis	Signature:	JHY~
Reference Weig Traceability of Test Equipment:	All weights used for metrologica standards. The weights were ca laboratory.	Il testing are traceable to librated and certified by	national or international an accredited calibration
Weight Set 1		2004/401 348-341	
Weight Set No.:	434	Date of Issue:	20-Aug-2008
Calibration Due Date:	31-Aug-2009	– NIST Traceability N	o. MT5061
Class:	E2		
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Form No.:VF0066A Software Version: 3.1.4.2 Page 1 of 3 © METTLER TOLEDO

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Certificate No.:

010108-203-012209

METTLER TOLEDO

Measuring Results

Eccentricity



1	I]	As Found			
_	Test Weight	Position	Displayed Value	Deviation		
*	C: 100 g	Center	0.0000 g	N/A		
	1: 100 g	Left Front	0.0002 g	0.0002 g		
_	2: 100 g	Left Rear	-0.0001 g	-0.0001 g		
_	3: 100 g	Right Rear	0.0001 g	0.0001 g		
_	4: 100 g	Right Front	-0.0002 g	-0.0002 g		
	Eccentric Loa	d Deviation:	0.0002 g			
_	Manufacturer Specifications	i.	0.0003 g			
_	Manufacturer Specifications Rounded to Resolution of Eccentric Load Deviation:		0.0003			
_	Specifications	: Met:	YES			

As Left					
Displayed Value	Deviation				
0.0000 g	N/A				
0.0001 g	0.0001 g				
-0.0001 g	-0.0001 g				
0.0002 g	0.0002 g				
-0.0001 g	-0.0001 g				
0.0002 g					
0.000)3 g				
0.0003					
YE	S				

Sensitivity

		As Found	
	Display	ed Value	
Reference Weight	Without Reference Weight	With Reference Weight	Deviation
200.0000 g	0.0000 g	200.0008 g	0.0008 g
	Sensitivity Offs	set:	0.0008 g
	Manufacturer S	Specifications:	N/A
	Manufacturer S Rounded to Re Sensitivity Offs	solution of	N/A
	Specifications	Met:	N/A

	As Left_			
Display	ed Value			
Without Reference Weight	With Reference Weight	Deviation		
0.0000 g	0.0000 g			
Sensitivity Offs	Sensitivity Offset:			
Manufacturer S	Specifications:	0.001 g		
Manufacturer S Rounded to Re Sensitivity Offs	solution of	0.0010 g		
Specifications	Met:	YES		

Form No.:VF0066A Software Version: 3.1.4.2

Page 2 of 3 © METTLER TOLEDO

Certificate No.:

010108-203-012209

METTLER TOLEDO

Linearity - Differential Method

Test Weight 50.0000 g

			As Found	
		Displaye	ed Value	
	Preload Weight	Preload	Test Weight	Deviation *
1	0 g	0.0000 g	50.0002 g	-0.00003 g
2	50 g	50.0001 g	100.0003 g	-0.00006 g
3	100 g	100.0002 g	150.0004 g	-0.00009 g
4	150 g	150.0003 g	200.0006 g	-0.00002 g
		Linearity Devia	tion:	0.00009 g
		Manufacturer S	Specifications:	0.0002 g
		Manufacturer S Rounded to Re Linearity Devia	solution of	0.00020 g
		Specifications	Met:	YES

	As Left		
Displaye	ed Value		
Preload	Test Weight	Deviation *	
0.0000 g	50.0000 g	-0.00005 g	
50.0000 g	100.0001 g	0.00000 g	
100.0000 g	150.0000 g	-0.00005 g	
150.0000 g	150.0000 g 200.0001 g		
Linearity Devia	tion:	0.00005 g	
Manufacturer S	pecifications:	0.0002 g	
Manufacturer S Rounded to Re Linearity Devia	solution of	0.00020 g	
Specifications I	Met:	YES	

^{*} This Linearity Deviation is zero point offset and sensitivity error compensated.

Remarks

None.

Form No.:VF0066A Software Version: 3.1.4.2

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Page 3 of 3 © METTLER TOLEDO

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www.mt.com

CUSTOMER SERVICE ACKNOWLEDGEMENT

Service Request ID	SV090407039	1	Seq #	00						□ Inc	omplete	☑ C	omplete	
Work Site Information		Update Sp	pecial Instructions see below	T						Service C	harges			·
Customer Number <u>U0354003</u>	51001			PO#:	EXTE	NDED W	ARRAN	TY PLUS		11.	0 of _	Z101EV	<u>NP_@_</u>	\$0.00
Customer Name CES ENVIRO	ONMENTAL			□с	.O.D.	Check #	N/A				of		@	
Address 1 <u>2420 SOUTH</u>	GULFWAY DRIVE			CC#:	N/A						of		@	
Address 2				Name	N/A						Fuel Surchar	je		\$0.00
City / St / Postal PORT ARTH	UR,TX. 77641			Exp D	ate: N	/A			_		Shipping and	Handling		\$0.00
Contact Name SUZI MOCK				D M	lasterca	ard 🗆	Visa	☐ America	n Express		Other Charge	s		\$0.00
Contact Phone 713.859.6938	3	Ext									Estimated	Charge	s \$0.	.00
Service Type	☐ Flat Rate ☑ Warranty	☐ Installation		ntal 🗌	EQ/Cert	☐ Mea	is CDN	☐ Wght Cal	Other	Vehic	le Charge	Standard	☐ Medium	☐ Heavy
Ref Model	Serial Numbe	er	Asset	Update	Ref		Mode	ı		Serial Numb	er		Asset	Update
1 T90	5128496284	1	N/A		3									
2					4									
			Travel To			1	On	site Labor			Travel F	rom		Zone
Technician	Date	Time	Duration OT	Miles	/KM	Tir	me	Duration	ОТ	Time	Duration		Miles/KM	Charge
LEWIS-2 JEFF LEWIS	13-Apr-09]
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Ref Part Number	Serial Num	ber	Description		Wareh	nouse	QTY	Unit Price	Extend	ed Price	Store S	tamp	Serv	rice Codes
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Problem Found					<u> </u>					cknowledges th				
WILL NOT RUN PH		······································								and agrees the something provided heres	under, is subje	ct to the Sta		
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ADJUST AB2- SENSOR1 AND F	PT1000									Sign	ature			Apr-09 Date
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16280500A



Jeff Lewis

Lab Instrument Service Specialist 1.800.METTLER ext.7157 Fax: 1.614.985.5328 Cell: 409.779.9179 jeff.lewis@mt.com Mettler-Toledo, Inc. 1900 Polaris Parkway Columbus, OH 43229 www.mt.com Quality Service Solutions ISO 9001 Registered Company A2LA Accredited



Spent Caustic Metals Analysis July 2007

Metals analysis by inductively coupled plasma (ICP). all units are ppm. Detection limit is approx 0.010 ppm (10 ppb). This table includes all the elements in the lab standard.

Aluminum	1.5 ppm
Arsenic	1.4 ppm
Boron	1.8 ppm
Barium	.67 ppm
Beryllium	n/d
Calcium	45 ppm
Cadmium	n/d
Cobalt	.43 ppm
Chromium	.21 ppm
Copper	.23 ppm
Iron	5.3 ppm
Potassium	14 ppm
Manganese	.18 ppm
Magnesium	12 ppm
Mercury	.93 ppm
Molybdenum	.5 ppm
Nickel	.73 ppm
Lead	n/d
Antimony	.47 ppm
Selenium	7.5 ppm
Silver	.2 ppm
Silicon	43 ppm
Vanadium	.019 ppm
Zinc	34 ppm

SAMPLE ID:

Enterprise Weak Caustic Solution.

MATRIX:

Water

TYPE:

Composite

SAMPLE DATE:

09/14/07

Barium < 0.5 mg/l

Cadmium < 0.5 mg/l

Chromium < 0.5 mg/l

Lead < 0.5 mg/l

Selenium < 0.5 mg/l

Silver < 0.5 mg/l

Mercury < 0.1 mg/l

Nickel < 0,5 mg/l

Potassium 30,000 mg/l

Zinc < 0.5 mg/l

DATE	TIME	INITIALS	DATE	TIME	INITIALS	DATE	TIME	INITIALS
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2/10	7:30A	Sm						
2/12	12:05 en	Sm						
7/19	7:25	AR.						
312	7:30	A M						
3/5	7:50	Sm				_		
3/4	6:30	Sm						
319	L: 31	5m						
31/10	1000	Sm						
3/11	7:15	Sm						
3/12	7:00	Sm						
3/13	(120	50						
3/16	6:30	5~						
3/11	6:15	Sm						
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3/19								
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TR-237 TK-235

DATE 8-1-09 NO. 652

PORT ARTHUR CHEMICAL ENVIRONMENTAL SERVICES
P.O. BOX 218
2420 SOUTH GULFWAY DRIVE
PORT ARTHUR, TEXAS 77640

WEIGHED BY Mosul

TR-221 TK-

DATE 8-1-09 NO. 651

PORT ARTHUR CHEMICAL ENVIRONMENTAL SERVICES
P.O. BOX 218
2420 SOUTH GULFWAY DRIVE
PORT ARTHUR, TEXAS 77640

DRIVER ON D OFF S

TL 225

PORT ARTHUR CHEMICAL ENVIRONMENTAL SERVICES
P.O. BOX 218
2420 SOUTH GULFWAY DRIVE
PORT ARTHUR, TEXAS 77640

DRIVER	ON 🗆	OFF 🗅	
WEIGHED) BY		

EPAPA001000725



CES DAILY TRUCK LOG

DATE	TRUCK NUMBER	TRAILER NUMBER	LÍGHT WEIGHT	HEAVY WEIGHT	NET WEIGHT	TICKET NUMBER	ŘEMARKS
8-3-09	2004	221		75080		653	89512
							The second secon

Security Officer's Name (Print): 97	CHISONETAL	les_	
Security Officer's Signature:	Allura	anes	
•			

	n		
Dago	/	af.	
Page		OI	
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FAXED TO
PATRIOT
ALREADY
ALSO COPY TO
CES-M. GARZA
COPY TO PATRIOT
BY SUPERVISOR



Proudest Employee Owned Company In TEXAS!

INCIDENT REPORT

DATE: 6-22-09	TIME:AM	
POST: Ex. Beaumont Enterprise	LOCATION: Ex. 2nd Floor	Lac.11
CES-Fort ARTHUR		TRACK
SECURITY OFFICERS NAME (PRINT):	POLICE DEPARTMENT: Ex. Bedding PUEE!	<u>r</u>
UIVIAJAMES	CES4 KM	
WITNESS:	AMBULANCE: Ex. Priority One	
CHRIS SAYLOR	THE DIMART CASE IS A 170	
WITNESS:	FIRE DEPARTMENT: Ex. Beaumont FD	
LJUAN MEN BOZA		

PRINT INCIDENT DETAILS IN ALL CAPITAL LETTERS

COMPLETE INCIDENT DRAWING ON BACK
DERRICK WILSON, TXIV (6) (6) PORT OF PORT
ACTHUR, WATER ADMINISTRATION, TRUCK #1440, PLATE
EXEMPT TX (B) (G) MASSENGER IN # 1440;
BELLAJAMES, TX 2007620516, NEITHER HAD TWIC.
1514 TRUCK #1440 DROVE PAST SECURITY TO
NEW DOUBLE GATE BY RATEROAD TRACK, I WAIKED,
TO THEM AS THEY WERE HEADING OUT. D. WILSON
STATED HAD INTENDED TO ENTER KUTY
THROUGH CES GATE. CES GATE STAYS
CLOSED AND LOCKED I TOLD THEM NOT
ALLOWED TO ENTER A FACILITY FROM
ANOTHER THEY DROVE OUT OF CES AND PURKED
IK # 1440, BOTH STARTED WALKING RATER DAD
SHOULDER TOWARDS KALTY OPEN BACK GATE
1523 EXITED COS GATE I CALLED HATRIOT
AND SPOKE WITH PAT, THEN PAM, THEN
ROBERT. I REMAINED ON HOLD ON MY CELL
PHONE UNTIL RELEASED BY POBERT.
m = 0
Security Officer's Signature: Way James Employee #3246

Confidential and Proprietary Patriot Security EOC

IN TAKING CARE OF MY OWN SECURITY DUTTES AT CES I WAS NOT ABLE TO TOCUS SOLEY ON THE OPEN KMTX GATE TO MONITOR IF D. WILSON AND B. JAMES ENTERED THROUGH IT - A BREACH OF SECURITY IF CLONE, ANOTHER TK. RESEMBLING #1440 MET UP WITH D. WITSON AND B. JAMES APPX. 1530 WHEN THEY RETURNED TO TK #1440 PARKED AT THE RAILROAD TRACK ON TALEN DRIVE."

TRUCK (CES) DRIVERS CHRIS SAYLOR AND JUAN MENDOZA WERE WORKENG IN THE GENERAL AREA OF THE NEW CES DOUBLE GATE THAT WAS CLOSED AND LOCKEDWHEN D. WILLSON AND B. JAMES ATTEMPTED TO PASS THROUGH CES TO KMTX.

I REPEATENYSTATED TO EACH PERSON AT PATRIOT ALERT KMILL OF IMPENDING BREACH OF SECURITY THROUGH BACK GATE, SO SOMEONE FROM OFFICE OF KMILL COULD IMMEDIATELY INVESTIGATE! HANDLE ISSUE,

WILSON VOLUNTERED SOMEONE "SAID" WIXGATE WAS OPEN WHEN I FIRST ENCOUNTERED D. WILSON WEARING-BLUE VEST WITH FORT INSIGNIA, WRINKLED OVER-POSSIBLY PORT ARTHUR?

BIJAMES IN CIVILIAN CONTES:
Proudest Employee Owned Company In TEXAS!



Patriot Security EOC Proudest <u>Employee Owned Company</u> In <u>Texas!</u> DAILY ACTIVITY REPORT

POS	TNAN	/IE:			
YES	NO		YES	NO	If any of the following is YES, an Incident Report MUST be filled out.
V		Did you arrie on time and in proper uniform?		شنه	Were you injured or ill while on post?
		Were all post orders properly followed?		سا	Did you call the Fire Dept. or Police Dept. for any reason?
		Were all patrols completed Properly?			Did you observe any unusual or illegal activity?
1		Were all visitors logged in properly?		4	Was any unusual or illegal activity reported to you?
,′,	器	Did you call on duty and off duty as required?			Only Call 409-727-4944
	(OD)	Did the Patriot Supervisor			

PLEASE PRINT IN ALL CAPITL LETTERS

TIME (20)— ACTIVITY (1) (1)
10:30 Clust a
11:00 CLOSE GATE All Secure.
12100 NO UNUSUAL OI ILLEGAL ACTIVITY
1100 Close Cate All Fence like a
2100 AL HOSS & GATE COSED, (Source)
2:57 - Post BISpection IS Brownard Cloricate
400 CLOSE GOTE AN OK,
5:00 All Secure.
6.00 GAGE GOSED AM SECURE.
7:00 Gate CloseD, RELIEF Como,
POST INSPECTION -P/S DIANA BROUSSARD
Security Officer's Name (Print): ANA KYEE Employee #: 2302
Security Officer's Signature: Jan 1981 Date: Col 7/07
Confidential and Poprietary Pageof
Patriot Security EOC

SECURITY EOC

Patriot Security EOC

Proudest <u>Employee Owned Company</u> In <u>Texas!</u>

DAILY ACTIVITY REPORT

POST NAME: (£'5'

YES	NO		YES	NO	If any of the following is YES, an Incident Report MUST be filled out.
		Did you arrie on time and in proper uniform?			Were you injured or ill while on post?
/		Were all post orders properly followed?			Did you call the Fire Dept. or Police Dept. for any reason?
		Were all patrols completed Properly?		+	Did you observe any unusual or illegal activity?
		Were all visitors logged in properly?		_	Was any unusual or illegal activity reported to you?
_		Did you call on duty and off duty as required?			Only Call 409-727-4944
		Did the Patriot Supervisor make an inspection?			

PLEASE PRINT IN ALL CAPITL LETTERS

TIME	ACTIVITY
200	Atcison was tilling me About the
	JOB Outhere. Trucks Y CAIS COMING
	+ gara, + All Section.
3/10	AT POST WATCHIG FOI COMMO & SOM
	trada o Gars, All Olut o
400	At POST WAKING FOR Trucks comeng
	HI is Quet & Sicure.
5:00	At Vost All Oliver - NO Ollogal Activity
620	At Past HI Quet
200	All Fenor of HILBLIS Secure + Quot
1/00	-All 6 Quel HI is source,
800	All Is Quit
10:00	H 15 50 Cure
//skulit	Coppicer's Name Print: All Employee #: 230
Securit	y Officer's Signature: July Wy Date: 6 - 1009
	Confidential and Poprietary Page of
	Patriot Security EOC



Patriot Security EOC Proudest <u>Employee Owned Company</u> In <u>Texas!</u> DAILY ACTIVITY REPORT

POST	Γ ΝΑΝ	ле:			
YES	NO		YES	NO	If any of the following is YES, an Incident Report MUST be filled out.
,,,		Did you arrie on time and		1/	Were you injured or ill while on post?
1		in proper uniform? Were all post orders properly followed?		V	Did you call the Fire Dept. or Police Dept. for any reason?
		Were all patrols completed Properly?		V	Did you observe any unusual or illegal activity?
		Were all visitors logged in		-/	Was any unusual or illegal activity
	a production of the same	properly? Did you call on duty and off			reported to you? Only Call 409-727-4944
	/	duty as required?			
		Did the Patriot Supervisor make an inspection?			
	M				
		PLEASE PRINT II	N ALL	CAPIT	TLLETTERS
TIME	3	100 Air Mate	CACT	TVITY	reading 19
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<i>).</i> 00	1	RSNIM OM	1 00 2	X X	Silvet
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HO		JOST THEOLICA	hon	///	Mr Obrousses
11:10	0=	Rad Characi	10	KU	200
Securi	ty Off	icer's Name (Print): 477/1/		170	Employee # \(\frac{30}{2}\)
Security Officer's Signature: Aula 1920 Date: 6-6-09					
		Confidentia	ıl and	Pop	orietary Page of
		Patriot		_	1 ugc 01
Proudest Employee Owned Company In Texas!					

LIC #CO6349

EPAPA001000731

Patriot Security EOC

Proudest <u>Employee Owned Company</u> In <u>Texas!</u>

DAILY ACTIVITY REPORT

POST NAME: (CFS) -

YES	NO		YES	NO	If any of the following is YES, an Incident Report MUST be filled out.
		Did you arrie on time and in proper uniform?			Were you injured or ill while on post?
		Were all post orders properly followed?			Did you call the Fire Dept. or Police Dept. for any reason?
		Were all patrols completed Properly?			Did you observe any unusual or illegal activity?
		Were all visitors logged in properly?			Was any unusual or illegal activity reported to you?
		Did you call on duty and off duty as required?			Only Call 409-727-4944
		Did the Patriot Supervisor make an inspection?			

PLEASE PRINT IN ALL CAPITL LETTERS

TEASET KINT IN ALL CATTLE LETTERS
TIME AT POST ACTIVITY
3:00 All iSOK-FERDE & HODED OK.
Walled allo Quet Soffe.
400 Wasting on Fraction to leave - Quet
Houng Observed NO UNUSUA Activity or
AllegAl ACTIVITY YET!
6:00 At Post-Checking Trudes on +Out.
6:00 FH POST Charles rudes + CAIS OUT
Quot 4/15 50000)
7:00 All Sheet (All is Soone.
800 All West All is some Quet & Som
9'01 At 405t AMIS Same-
Security Officer's Name (Print): PHUIA KIZEM Employee #2302
Security Officer's Signature: Date: 4/9/19
Confidential and Poprietory
Patriot Security EOC

Patriot Security EOC

Proudest <u>Employee Owned Company</u> In <u>Texas!</u>

DAILY ACTIVITY REPORT

YES	NO		YES	NO	If any of the following is YES, an Incident Report MUST be filled out.
كرنا		Did you arrie on time and in proper uniform?		/	Were you injured or ill while on post?
-	ere e e e e e e e e e e e e e e e e e e	Were all post orders properly followed?		-	Did you call the Fire Dept. or Police Dept. for any reason?
L	A STATE OF THE PARTY OF THE PAR	Were all patrols completed Properly?			Did you observe any unusual or illegal activity?
Companyana	Marine a service of	Were all visitors logged in properly?		~	Was any unusual or illegal activity reported to you?
L	San San San San San San San San San San	Did you call on duty and off duty as required?			Only Call 409-727-4944
		Did the Patriot Supervisor make an inspection?			

PLEASE PRINT IN ALL CAPITL LETTERS

	TEDRODIKATINADE CATAL EDITERO
TIME	PAU/A ACTIVITY
3:00	Walled the HEA Checked Lages +
1	Chand the Song Art - All Of
4:10	At POST VERY Quet
5:00	WAKED THE AREA All is Quit
	NO UNUSUAL ACTURINGOING ON.
6,00	OBOSTIENA HEAT HILLS Seeure
100	At 1854 Wall of MEHOK-Quet
8.00	At Pot GAR GODD All Secural
9:00	At Post All QHICT & GATE Chard
11:00	At Post All (Sult & Gate Seaux)
I /M	Read Can &
[77]	
Securit	y Officer's Name (Print): Phuld KYZER Employee #2302

Security Officer's Name (Print): Thum Kuzek Employee	oyee #: 302
Security Officer's Signature: Dull Will Date:	6-7/09
Confidential and Poprietary	Page of
Patriot Sourity FOC	



Patriot Security EOC Proudest <u>Employee Owned Company</u> In <u>TEXAS!</u>

INCIDENT REPORT

DATE: 5-29-09	TIME: 1/4/0 AM PM
POST: Ex. Beaumont Enterprise CES	LOCATION: Ex. 2 nd Floor
SECURITY OFFICERS NAME (PRINT): * LAURF L L. BYCHISON	POLICE DEPARTMENT: Ex. Beaumont PD
WITNESS:	AMBULANCE: Ex. Priority One
WITNESS:	FIRE DEPARTMENT: Ex. Beaumont FD

PRINT INCIDENT DETAILS IN ALL CAPITAL LETTERS COMPLETE INCIDENT DRAWING ON BACK

AT 1140 AM SECURITY WAS INFORMED THAT MAIN
1158 ALANH'S WERE GOLG OFF. BUNDING WAS
EVACUTED BY ALL PERSONNEL. SECURITY INFORMED
BY GUEN OLSON. SECURITY'S PERSONAL MODITOR
SILBUT. AT THIS JIME.
11:48 PROBUSH SOLVED. BUBRIS RE-SET
PEPS-NUEL REJURNING TO WORK
SECURITY'S MONITOR DID-NOT GO DFF
ARED. FOR SECURITY SUFE.
1150 BU CLEAN SOUNDED

Security Officer's Signature

Employee # 1006

Confidential and Proprietary Patriot Security EOC



Patriot Security EOC Proudest <u>Employee Owned Company</u> In <u>Texas!</u> DAILY ACTIVITY REPORT

		DAILI ACI	TATI	LIA					
POS	T NAN	ME:							
	l				TC CA CA : VIIIC				
YES	NO		YES	NO/	If any of the following is YES, an				
		D'I		_/_	Incident Report MUST be filled out.				
		Did you arrie on time and		1	Were you injured or ill while on post?				
	ļ	in proper uniform? Were all post orders		- /	Did you call the Fire Dept. or Police				
		properly followed?		1	Dept. for any reason?				
		Were all patrols completed		'	Did you observe any unusual or illegal				
-	/	Properly?		1	activity?				
1 /	12/	Were all visitors logged in		. /	Was any unusual or illegal activity				
	Y	properly?		V	reported to you?				
		Did you eall on duty and off			Only Call 409-727-4944				
		duty as required?							
		Did the Patriot Supervisor							
		make an inspection?							
		PLEASE PRINT IN	N ALL	CAPIT	LLETTERS MA 19				
TIME	. 7	On DAIVA VU	TO	TVITY	ONDIT				
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1.U.).	K	DU COIL							
Secur	ity Off	icer's Name (Print):	AK	4/	ER Employee #: 2302				
Secur	ity Off i	icer's Signature:	2	4/3	20 Date: 53/109				
		Confidentia	l and	Kan	rietary				
	Confidential and Poprietary Page of								

Patriot Security EOC

Proudest <u>Employee Owned Company</u> In <u>Texas!</u>
LIC #CO6349



Patriot Security EOC Proudest <u>Employee Owned Company</u> In <u>Texas!</u> DAILY ACTIVITY REPORT

POS	ΓNAN	ME:			
YES	NO		YES	NO	If any of the following is YES, an Incident Report MUST be filled out.
1/		Did you arrie on time and in proper uniform?		/	Were you injured or ill while on post?
		Were all post orders properly followed?		/	Did you call the Fire Dept. or Police Dept. for any reason?
i/		Were all patrols completed Properly?			Did you observe any unusual or illegal activity?
V		Were all visitors logged in properly?			Was any unusual or illegal activity reported to you?
/		Did you call on duty and off duty as required?			Only Call 409-727-4944
, /	1 sal	Did the Patriot Supervisor			

PLEASE PRINT IN ALL CAPITL LETTERS

make an inspection?

ACTIVITY
PetrictS aperuisan Harding Training and Post Inspection
on Security Officer Michael Portier.
Made pounds nothing unusual to report
No activity to opport
made rounds nothing unusuat to report
No activity to report
made rounds nothing unusual to report
No activity to apport
made rounds nothing unussual to report
relier arrived or

Security Officer's Name (Prin	nt): Michael Posties	Employee #: 1557
Security Officer's Signature:	Mikal Motto	Date: 5-31-2009

Confidential and Poprietary

Patriot Security EOC

Page _____ of ____

SECURITY EOC

Patriot Security EOC Proudest <u>Employee Owned Company</u> In <u>Texas!</u>

DAILY ACTIVITY REPORT

POST NAME: <u>CES</u>

YES	NO		YES	NO	If any of the following is YES, an Incident Report MUST be filled out.
1		Did you arrie on time and in proper uniform?			Were you injured or ill while on post?
1		Were all post orders properly followed?			Did you call the Fire Dept. or Police Dept. for any reason?
//		Were all patrols completed Properly?			Did you observe any unusual or illegal activity?
/		Were all visitors logged in properly?			Was any unusual or illegal activity reported to you?
		Did you call on duty and off duty as required?		,	Only Call 409-727-4944
	~	Did the Patriot Supervisor make an inspection?			

PLEASE PRINT IN ALL CAPITL LETTERS

		1
TIME	ACTIVITY	
7°3	1/5 Rippy on Duly. Round MADE, GATE is CloseD	
	Fonce Line has NO Problems All is Seculed	
	AIR METER READING 19	
800	MADE A Round and there is No Activity	
900	The GATE, Fonce Line, and WATER WAY are	
	all Secured	
1000	WAIKED My Round and Found Nothing New	
1120	Made my Round. GATE is Closed and	
	Ay is Secured.	
1155	Bo Cumberland is on site to do some	
	work, Sll Served	
100	Mr Cumbedand is Checking the TANKS	
200	Bo Cumber and left Round made and All	Sourced
Securit	y Officer's Name (Print): 27MDP Rippy Employee #: 1804	
Securit	y Officer's Signature: Signature: Date: 5-31-00)
	Confidential and Poprietary Page 1 of	
	Patriot Security EOC	

Patriot Security EOC Proudest <u>Employee Owned Company</u> In <u>Texas!</u>

			$\frac{1}{2}$			ACT	TIVITY	<u>54</u>	<u>m</u>		<u>ر</u>	C	<i></i>	$\underline{\bigcirc}$
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LIC #CO6349

Patriot Security EOC

Proudest Employee Owned Company In Texas!

DAILY ACTIVITY REPORT

POST NAME:

YES	NO		YES	NO	If any of the following is YES, an Incident Report MUST be filled out.
\		Did you arrie on time and in proper uniform?			Were you injured or ill while on post?
\		Were all post orders properly followed?			Did you call the Fire Dept. or Police Dept. for any reason?
\		Were all patrols completed Properly?			Did you observe any unusual or illega activity?
\		Were all visitors logged in properly?			Was any unusual or illegal activity reported to you?
		Did you call on duty and off duty as required?			Only Call 409-727-4944
		Did the Patriot Supervisor make an inspection?			

PLEASE PRINT IN ALL CAPITL LETTERS

TIME	ACTIVITY	
7°0	Supervisor Rippy on Site AND ON DUTY.	
	No Activity on Night Shift. MADE my	
	Round and all is SECURED. GATE CLOSED	
755	MR. BO CumberlAND ON SITE to do Paper	
	WORK, MR CUMBERLAND CheckED MY TWIC CA	RD
900 A	Round made GATE AND SITE IS SECURED	
	No Activity No Problems	
1015	Round made MR. Cumberland has left	
	FOR THE DAY GATE CLOSED and SECURED	
1100	West on Dounds ENERUThing is Secules	
1900	No LETIVITY GATE CLOSED AND SECULED	
180	Keeping Eye ON WAIST WATER Pipe and	
	Everything Else.	
	111000000	-

Security Officer's Name (P	rint): LINOA RIPPY	Employee #: <u> </u>
Security Officer's Signatur		Date: 5-17-09
	' ' V I /)	

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Page 1 of 2 over

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TIME		'ES		ACTIVI		<u>7-1</u>	7-0	19
ဘုဝ	Ros	nd ma	de No Rippy DAY-	PROD	lems	No	Acti	ptiv
3%	Su	pervisor	RiPPY	290	Dut	, +	3VAf	<i>J</i>
	A	good	PAY.					
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INCIDENT REPORT

DATE: 5-8-09	TIME: AM /850pm
POST: Ex. Beaumont Enterprise	LOCATION: Ex. 2 nd Floor
PT. ARTHUR CES SECURITY OFFICER'S NAME (PRINT):	PHARTHURCES WEST GATE
SECURITY OFFICERS NAME (PRINT):	POLICE DEPARTMENT: Ex. Beaumont PD
OCIVIA JAMES	PAPD
WITNESS:	AMBULANCE: Ex. Priority One
MIKE HOLT	
WITNESS: BADSE #1309	FIRE DEPARTMENT: Ex. Beaumont FD
PAPD Officer Walker	

PRINT INCIDENT DETAILS IN ALL CAPITAL LETTERS COMPLETE INCIDENT DRAWING ON BACK

OSHA ASSISTANT AREA Director JOHN FIGUEROA SOUGHT ENTRY INTO PLANT AFTER HOURS. TX PLATE JCT OGG TX, SMALL HATCHBACK, LIGHT COLOR (SILVER). APPX 18 40 ABOVE DENTHIED VEHICLE PARKED ON HWY Shoulder DOINTED TOWARDS CHEVRON DIRECTLY IN PRONT OF PLANT, Pantially OBSCURED BY TREE LIMBS. I MOVED TO GET AS CIEAR SIGHT AS POSSIBLS TOWARDS REAR OF CAR. HEAD INSIDE WAS SHADOWED. I MADE IT OBVIOUS THEY "WERE BEING WATCHED. CAR DID NOT MOVE ON AFTER SEVERAL MINUTES CALLED PAPD SUSPICIOUS VEHICLE PARKED ON HWY IN FRONT OF PRINT (1845), OFFICER TO RESPOND. 1850 VEHICLE DROVE SIOWLY UP ROAD, APPEARS TO BE STOCKY WOMAN WALKS UP TO GATE AT CRACK BY RESTRICTED ACCESS SIGN SEEKING ENTRY. I CALLED OUT TWICE TO HER' SECOND TIME SHE SAID SHE WAS

Security Officer's Signature: <u>Alwayames</u> Employee # 3216

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ORIGINAL TO JAY MATLOCK W/ BUSINESS CARD

DRAW THE INCIDENT IN DETAIL:

RIGHT ON SHOULDER, PULLED TO BBSERVE APPX 1930 CALLED IN INCIDENT TO PATRIOT DOWN THE HWY APPX LOR 2 miles. HE DID SO,

> Joann Figueroa Assistant Area Director Houston South Area Office

Occupational Safety and Health Administration



U.S Department of Labor 17625 El Camino Real STE 400 Houston, TX 77058

Phn 281-286-0583 Ext. 223 Fax 281-286-6352 figueroa.joann@dol.gov

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INCIDENT REPORT

DATE: 5-8-89	TIME: <u>639</u> AM PM
POST: Ex. Beaumont Enterprise (E.S.	LOCATION: Ex. 2 nd Floor
SECURITY OFFICERS NAME (PRINT):	POLICE DEPARTMENT: Ex. Beaumont PD PORT BRYHUL
WITNESS:	AMBULANCE: Ex. Priority One
WITNESS:	FIRE DEPARTMENT: Ex. Beaumont FD

PRINT INCIDENT DETAILS IN ALL CAPITAL LETTERS COMPLETE INCIDENT DRAWING ON BACK

AT 1039 BM 5-8-09 NOTICED CHIZ KMBTU CREW
SETTING UP ON HAY BUROSSEN FROM CES.
1042 CRAW LAFT DRAD JOUAND SABINE PASS
1045 CALLED INTO PATRIOT SECURITY OFFICE TO
INFORM THEM ABOUT A POSSIBLE PROBLEM.
1248 KDFM YRUCH RETURNED CAME DOWN
PRIVAT ENTRY RD PARTHING BY JOVEN MORNE
GATE. HOURD UP TO RIR CROSSING SET UP CAMENTA
911 CALLED, SIGTY BOWNON CHASE GUBT CREW
TO REMOUE THISM FROM PROPERTY.
11:00 TV. CAIN NOW ON HUY SETTING
up
1104 PAPP ATRIVED. GICHRISTIAN ON
PROPORITY OF KICKST MAST WITH MR. MAST BOWMAN
QUESTICK OF PRIVENT PROPERTY/ROAD. 1110 POLICE DE-
PORTED AND, 11:14 POLICE OFFICER PULLED UP
BEHIND J.V. CREW'S 11:20 SMALL WHITE CAR
PULLED UP IN FRONT OF TU CREW SUV. ONE PERSON.

Security Officer's Signature:	Employee # 1006

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DRAW THE INCIDENT IN DETAIL:

FROM SYOU WHITE CAR. GOT OUT ON IS METER TOLAING TO JU. CREW. LONE MALL FROM WHITE CAR DAPEARS

TO BE NEWS CASTOR/ANCHOR NOTE (3) THREE MOLES

SEEN (2) TWO BURCH (1) WHITE. (1) BURCH MOLE IN

SMALL WHITE CAR. (1) BURCH MOLE II WHILE MOLE

IN JU SUV. 11: 40 AM. BOTH LEFT BREA.

VISIBLE J- SECURITY. THEY DID NOT GO OVER

BRIDGE. 11:53 BUL PARTICS DEPARTED ORDE

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SECURITY EOC

Patriot Security EOC Proudest <u>Employee Owned Company</u> In <u>Texas!</u> DAILY ACTIVITY REPORT

POST NAME: Thomas Neil

YES	NO		YES	NO	If any of the following is YES, an Incident Report MUST be filled out.
_/		Did you arrie on time and in proper uniform?		/	Were you injured or ill while on post?
		Were all post orders properly followed?		$\sqrt{}$	Did you call the Fire Dept. or Police Dept. for any reason?
\checkmark		Were all patrols completed Properly?			Did you observe any unusual or illegal activity?
		Were all visitors logged in properly?		/	Was any unusual or illegal activity reported to you?
/	49	Did you call on duty and off duty as required?		-	Only Call 409-727-4944
	/	Did the Patriot Supervisor make an inspection?			

PLEASE PRINT IN ALL CAPITL LETTERS

TIME	ACTIVITY
Hpm	Performed initial patrol, Checked both gates,
	Checked perimeter, checked docks, all clear
lam	Performed patrol, checked on all perimeters,
	bothgates, docks, all clear, checked with
	truckdrivers, everything okay
3 _{am}	Performed patrol, walked the perimeter, checked
	the clocks, checked both gates, all clear,
	Checked with truck drivers, everything okay
5 am	performed patrol, walked through perimeter,
	checked the docks, checked both gates, all clear
7 am	performed patrol, checked perimeter, checked
	docks, checked both gates, all clear
	J '

Security Officer's Name (Print): Thomas Aleil	Employee #: 2282
Security Officer's Signature: Men 1 Date: 5-16-09	
Confidential and Poprietar	
Patriot Security EOC	



Patriot Security EOC Proudest <u>Employee Owned Company</u> In <u>Texas!</u> DAILY ACTIVITY REPORT

POST NAME: CES EN VIOLA ENtal

YES	NO		YES	NO	If any of the following is YES, an Incident Report MUST be filled out.
V		Did you arrie on time and in proper uniform?		1	Were you injured or ill while on post?
7		Were all post orders properly followed?		7	Did you call the Fire Dept. or Police Dept. for any reason?
1		Were all patrols completed Properly?		V	Did you observe any unusual or illegal activity?
1		Were all visitors logged in properly?		7	Was any unusual or illegal activity reported to you?
7		Did you call on duty and off duty as required?			Only Call 409-727-4944
		Did the Patriot Supervisor make an inspection?			

PLEASE PRINT IN ALL CAPITL LETTERS

TIME	ACTIVITY
7:10	Arriver at ces enviolmental talked to night gourd
7:30	walked around fence line (Nothing unusual)
	did A 125 test
8:33	checked the fench behind the tanks
9:28	walked the perimmeter
13:07	fiched up trash around gaurd house
11:13	checked preniter
1 Pm	checked premiter and an gates an
	Clear
2:450	talked to relief gawd
3 Pm	Left site

Security Officer's Name (Print): Lossian Lossian Employee #:	steven	saiy es
Security Officer's Signature: & teuch Salfon Date: 5-10-09	<u></u>	
Confidential and Poprietary Page of	<u> </u>	
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Patriot Security EOC Proudest <u>Employee Owned Company</u> In <u>Texas!</u> DAILY ACTIVITY REPORT

POST NAME:	Thomas	Neil	

YES	NO		YES	NO	If any of the following is YES, an Incident Report MUST be filled out.
\checkmark		Did you arrie on time and in proper uniform?	J	/	Were you injured or ill while on post?
\checkmark		Were all post orders properly followed?		/	Did you call the Fire Dept. or Police Dept. for any reason?
		Were all patrols completed Properly?		V	Did you observe any unusual or illegal activity?
	_	Were all visitors logged in properly?		/	Was any unusual or illegal activity reported to you?
V		Did you call on duty and off duty as required?			Only Call 409-727-4944
V	PAH	Did the Patriot Supervisor make an inspection?			

PLEASE PRINT IN ALL CAPITL LETTERS

TIME	ACTIVITY
11 P/M	Arrivedon duty, walked area, checked perimeter,
	checked docks, checked gates, all clear
19/2	Performed perimeter check, checked gates, checked
	dock, all Clear, Began to rain, rain stopped,
	performed perintfer check, checked dock, all clear.
3 am	Petrict Supervisor Harding Post Inspection on Security
	Officer Thomas Neil Performed perimeter chack,
	checked dock, checked gates, all clear
5 g/m	Performed perimeter check, checked dock, checked
	gates, all clear.
L	

Security Officer's Name (Print): Thomas Neil Em	ployee #: 2282
Security Officer's Signature: Ann M. Dat	e:05-01-09
Confidential and Poprietary	Page of
Patriot Security EOC	PRS A

SECURITY EOC

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DAILY ACTIVITY REPORT

POST NAME:(>		
-------------	--	--	---	--	--

YES	NO	,	YES	NO	If any of the following is YES, an Incident Report MUST be filled out.
/		Did you arrie on time and in proper uniform?		_	Were you injured or ill while on post?
/		Were all post orders properly followed?		-	Did you call the Fire Dept. or Police Dept. for any reason?
		Were all patrols completed Properly?		1	Did you observe any unusual or illegal activity?
		Were all visitors logged in properly?		į,	Was any unusual or illegal activity reported to you?
		Did you call on duty and off duty as required?			Only Call 409-727-4944
/		Did the Patriot Supervisor make an inspection?			

PLEASE PRINT IN ALL CAPITL LETTERS

TIME	ACTIVITY
7:00	S/O Rosales on Duty
	no Activity
9:00	no Achrity
1	no Activity
11.00	no Actualy
10:08	Potriot Supervisor Harding Marsec Training and Post Inspection
	on Scourity officer Rosales
100	12 Activity
	no ACTIVITY
3.00	OFF DUTY
,	

Security Officer's Name (Print): LUIS Resales	Employee #: 2025
Security Officer's Signature: Junifordia	Date: 4/26/09
Confidential and Poprietary	V -

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LIC #CO6349

SECURITY EOC

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DAILY ACTIVITY REPORT

POST NAME: C.F.S.

YES	NO		YES	NO	If any of the following is YES, an Incident Report MUST be filled out.
\times		Did you arrie on time and in proper uniform?		×	Were you injured or ill while on post?
×		Were all post orders properly followed?		又	Did you call the Fire Dept. or Police Dept. for any reason?
×		Were all patrols completed Properly?		×	Did you observe any unusual or illegal activity?
\nearrow		Were all visitors logged in properly?		入	Was any unusual or illegal activity reported to you?
>		Did you call on duty and off duty as required?			Only Call 409-727-4944
	\gg	Did the Patriot Supervisor make an inspection?			

PLEASE PRINT IN ALL CAPITL LETTERS

TIME	ACTIVITY
300	PISRIPPY ON DUTY. CallED on Duty. Closed GATE. No workers on site.
	GATE. NO WORKERS ON SITE.
4 Pm	MADE OROund By the water. No Activity
5Pm	WATCHING GATE AND FENCE LINE ALL IS SOCURE
600 000	Noticed the Alarm WE Wear is starting
	to Blenk RED. Site is Still Secure.
700	No Activation at this site. GATE is Closed.
8 8m	CALLED AND LEFTA MESSAGE FOR the CAPT
	to call me ABout this DIARM we weak. IT
	Is STILL Blinking Red. I think The
	BATTERIES NEED TO BE REPLICED
900	Round made having No Problems
Poo	GATE Closed WAIKED to WATER ALL Secured

Security Officer's Name (Print): Linda Riff	Employee #: 1804
Security Officer's Signatures Sanda R. O. Q.	Date: 5 9-09

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LIC #CO6349

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Patriot Security EOC Proudest <u>Employee Owned Company</u> In <u>Texas!</u>

TIME	ACTIVITY
11 pm	PS Rippy Off Duty. No Problems tonight
<u>.</u>	
-	
-	
· ·	

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LIC #CO6349

Patriot Security EOC

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DAILY ACTIVITY REPORT

YES	NO		YES	NO	If any of the following is YES, an Incident Report MUST be filled out.
/		Did you arrie on time and in proper uniform?		\	Were you injured or ill while on post?
/		Were all post orders properly followed?		1	Did you call the Fire Dept. or Police Dept. for any reason?
\		Were all patrols completed Properly?		1	Did you observe any unusual or illegal activity?
`		Were all visitors logged in properly?		\	Was any unusual or illegal activity reported to you?
\		Did you call on duty and off duty as required?			Only Call 409-727-4944
		Did the Patriot Supervisor make an inspection?			

PLEASE PRINT IN ALL CAPITL LETTERS

TIME	ACTIVITY
300	P/s Rippy on site, GATE Closed and made
	my Round All is Secured Meter 20
400	Walker SitE. GATE Closed All is somed
5m	Having no Problems Meter is still 20
600	MADE A Round Bock By the water. GATE
	is Closed All is secured. Meter Still 20
J 500	GATE Closed. Round MADE All Secured
800	Checken fence Line GATE CloseD
	Round made By WATER METER 20
9 Pm	MADE ROUND BY the WATER GATE is
	STILL CLOSED METER 20
1000	WAIKED my Round All is Secured
1100	PIS RIPPY is Off Duty

	Employee #: \\C\
9 (Date: 5-3-09
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SECURITY EOC

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DAILY ACTIVITY REPORT

POST NAME: CES

YES	NO		YES	NO	If any of the following is YES, an Incident Report MUST be filled out.
		Did you arrie on time and in proper uniform?			Were you injured or ill while on post?
/		Were all post orders properly followed?		~	Did you call the Fire Dept. or Police Dept. for any reason?
u		Were all patrols completed Properly?		1	Did you observe any unusual or illegal activity?
	/	Were all visitors logged in properly?		4	Was any unusual or illegal activity reported to you?
_	· · ·	Did you call on duty and off duty as required?			Only Call 409-727-4944
V	JA:H	Did the Patriot Supervisor make an inspection?			

PLEASE PRINT IN ALL CAPITL LETTERS

TIME	ACTIVITY	
1500	Patriot Supervisor Harding Trained and Post	
	Inspection on Security Officer Dinna Browssand.	
1547	BegAN DERIMETER PATROL - ALL SECURE-B	•
1615	BEGAN PERIMETER PATROL ALL SECURE @	
1700	BEBAN PERIMETER PATROL - ALL SECURE -	1
1810	BEGAN PERIMETER PATROL ALL SECURE - PB	
	BEBAN PERIMETER PATROL - ALL SECURE -	7
I 1	BEBAN PERIMETER PATEDL - ALL SECURE -	8
11	BEBAN PERIMETER PATROL—ALL SECURE—	K
	BEBAN PERIMÉTER PATROL - ALL SE CURE - 2	
	30 D. BROUSSARD OFF DUTY-CALLED IN-	
22/2	SupERVISOR PHONED AND ASK ME to Show the	
	GUARD What to DO UNTIL SHE CANGET HERE -	8

Security Officer's Name (Print): DIANA BROUSSARD Employee #: 2265

Security Officer's Signature: Diana Bhoussard Date: 4-18-09

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Page _____ of ____

Patriot Security EOC



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DAILY ACTIVITY REPORT

POST NAME:	CES	

YES	NO		YES	NO	If any of the following is YES, an Incident Report MUST be filled out.
/		Did you arrie on time and in proper uniform?			Were you injured or ill while on post?
V		Were all post orders properly followed?			Did you call the Fire Dept. or Police Dept. for any reason?
		Were all patrols completed Properly?			Did you observe any unusual or illegal activity?
		Were all visitors logged in properly?		1	Was any unusual or illegal activity reported to you?
		Did you call on duty and off duty as required?			Only Call 409-727-4944
S. Sanda	JH	Did the Patriot Supervisor make an inspection?			

PLEASE PRINT IN ALL CAPITL LETTERS

TIME	ACTIVITY
ilpm	On Duty
12am	All roads made - An secure
lam	An rounds made - An secure
Zan	An ronds made - An secure Plathets - go our
	Revised Post Crairs about 120 Mointer
Jan	All rounds made - M cheer
Han	All roands Made - all clear
San	All roands meder all cher
Lan	All rounds mede-all clear
7em	Off Auty

Security Officer's Name (Print): Cody Martin	Employee #: 2374
Security Officer's Signature: Cook Man-	Date: 4/19/09
Confidential and Poprietary Patriot Security EOC	•

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LIC #CO6349

	Name	Tag(s)#
	Brent Sittia	X57HJC
	Suzi Mock	072GLL / 716YZP PERYOURLIST
1 11	Tony SAVOY	394MYG / FFX192V
ANTHONY	Bo Ciambourland	90NVN5
	Bo Cumbérland Brian Weathers	16NHP5_/
	Dennis Shaddi x	8CFY76
	Matt Bowman	25KMN6
	losé Gonzalez	DWY196
Africas	Adrein Cosillos	902GE (velder the writer to 5)
Marian	José Gonzalez welder Adráin Cosillos (Sillas(?) or os? Roberto De Luna welder	LLS304/
KEVIV	Kiven Crawly Craw Ley	39KTC4
KCV	Robert Henry	CCW172 / 73PSS3 🗸
	Milton Terry	R87984
	Ricky T.	70//DLIC /
	Glen O(SON	33MRNE 33MRN5 onyour list
Ghery	Gobby Godefry	103TRS
Krissy.		161WMN / PCJ649√
NEID.	K: Anderson Andersen FL	8680851
RCEP A 10 CENT	M. Mossier MOSER	9TSL88 1-2-09 lostday w/ccs
MAPLEN	Kiven Wilson	99SKL3
KE V-	Brad Woods Wood	80NPC8
		FFX 192
	ANTHONY TONY SAVOY Sorry	TTX TC
	KEVIN BANKS	- PASSENGER
	Quinn Green —	-17VMR6
	mike Rudd	-CDL832
	CHAWFORD	
	MATY	
	KERRY WELLS Johnnie on Spo	+
	MARK BROUSSAND CES 68C	MM/
	MBAK BROUSSBUD CESTOR	

	Name	Tk#	Tag #
KEVIN	Crawley Kivén Crawly	292~	R88008√
	Jake Norton	2006	<u>RD3K63</u> ✓
Willy	Willie Denton	2005	RD3K62/
Juan		2001 ✓	R88017
	Kiven Wilson	2004 √	RD3K61
	Brent Sittig	285 √	R88001
	Rolando	298√	R88014 V
Candido	Carndido Rosa les	290√	R88006 ✓
	Peter Semien	283 ~	R87999
Gordo	Gordo Dominguez	294 🗸	R88010
00,	Joe Gonzales	297✓	R88013
	Matt TAYIOT	280~	R87996
	Alfonso Salazar	279 🗸	R87995
	José	293 🗸	R88009
	Alfredo Garza	289	R88005
Wilfredo	Wilfrado Abreu	291	R88007 ~
	Donald	284 🗸	R88000
	Omar Sanchez	2000 🗸	R88016 🗸
	Rudy Carillo	282 🗸	R87998 🗸
Sergio?	Serigo	288	R88004
Juan	Jaun Frias✓	2003 🗸	R88059 V
	CHRÍS SAY lor	275-296	R87990 R86 012
•	CARL CRAWFORD 878	104	187994)

José Gonzales José Ramirez José Sanchez

GODEFROY MEDRY WEILS OUS MAY

BRELIF & X57 HJC CES	
SUZ! N. OTZGLL/7164ZP CES	
JUNY 5: 394MYG/FFX 192 CES	
BC C 90NUNSV "	
BRIAN W. 16NHP5" "	
DENNISS &CFY76/	
MATT & 254 MNC/ CES	
JOSE GONZALET DWX184 WEILDEM	
BDRIAN COSILLOS 902 GGF "	
ROBBERTO DE LYUP US 304 "	
KIVEN CRAWLY 39K JC4 CES	KEVIN
ROBERT HIEURY CCW172 / 7310 553	CF 5
MILTON T. 187984	CE 9
RICKY J. 72K RHG	./
GLEN 0: 33M RN5	./
GEBRY G. 103 TRS	"Gbery Godefrey perag.
- KITSPESE IGIWMN/PCD649	CES Krissy
K. ANDERSOL 868 0851 2LLANOSIO	ANDERSEN, KELD per K.A.
M MOSSIFIR 975-68	"MOSER ORMA.
KIUEN WILSON 995 KL3	CE 5 KEVIN WI
BRAD WODS 80NPC8	wood
	· · · · · · · · · · · · · · · · · · ·

KINEN CRONLEY	292	R88008	KEVIN CRAWLEY
TAKE N.	2006	RD3 K63	
BALLY D.	2005	RO3 462	
JUBN M	2001	188017	JUAN
KIVEN W	2004	RD3K61	KEVIN W.
BREW S.	285	1188001	
ROLANDO	298	1288014	
CARNOIDOR.	290	R88006	Candido
PETEN SI	283	R87999	
Latter	278	R87994	
GORDOD	294	188010	Gorbo
JOE G.	297	R88-13	
MATT T.	18C	R87996	
BLFONSOSI	279	R87 995	
TOSE	993	R 88009	
BUFREDOGO	289	R88005	
WILFRADO X	291	R88007	Wilfredo
DONALP	2841	288500 R	88000
OMAIR S'	8000	188016	
RUDY C.	282	R87998	
SERIG O	888	R88004	Sergio?
water-			
KIVEN C	292	R88008	KEVIN C
JUBN FRIAS	2003	R88 059	

Keld Andersen Kerry Wells Gron-Spot Keven Banksley adrian Cosillas al Hall Offredo Garya Leven Wilson alfonso Salayar Krissy Reese Martin Morer 1-2-09 andres Soto anthony Savoy, TONY' Bo Gumberland Matt Bowman Bradwood Melvin Esperal Brent Sittie Mike Rudd Milton Terry Brian Weathers Candido Rosales Peter Senier Clark Hickman Quinn Green Clint Hopkins -Rich Jr. Dennis Shadding Dustin Harrington Robert Henry , Roberto DeLuna, Ricardo De Luna) Shery Godefry Gordo Dominguey Rudy Carillo Steve Stricker Greg Bowman Sy Surji Mock Willy Denton Wilfredo Abreu Gregory Bowman Jr. (tot) Gregory dawrence Strin Woodard Jack Lipson Soldary Brockman CESTAB Glen Olson CES James Earl Hasking James Matlock Joen Lutter Jose Longalis Miles Roof CES Reseasch f Jose Raminen Jose Sanchen Joseph Hernandey quan Frias Suaf Mendone

Post Orders CES Environmental

3rd Shift and Weekend Security Officer

No hourly employees after hours during week and weekends unless informed by CES office of employees over-time, specifically by name.

All CES Employee's have been notified.

Security Officer will escort anyone after hours and all shifts on the weekends to get cell phone or charger. <u>No tools</u>.

Any doubts call 24 Hour Access

Brian Weathers 713-306-9864 **Bo Cumberland** 713-416-4160 **Chris Saylor** 713-825-8326

Proudest Employee Owned Company In TEXAS!



To All Security Officers

CES Environmental stated that no more tug boat crew changes will be allowed at this site!

Brian Weathers doesn't want anyone from the tug boats coming on CES Environmental Property and he doesn't want the tug boats tied up at CES Environmental Dock.

ALUAYS DUBLE CK. ALL: TK#'S CHEAT SHEETS TAGHIS ANALUAC 1100 MARK BERTRAN RIGOSE DRIVER'S ACTOM 67 Jerry Bohler P631783 (373) CES 2006 KEVIN CRAWley (WENDR.) CES 282 Kudy CARRILLO CES 2003 JUAN ERIAS CES 294 GORDO DOMINQUEZ [291) R88007]
Alfredo GARZA CES 286 BRE LAWRENCE RS8002 1) rivers OMAR JANGHEZ Switch Trucks Trailers CES2001 JUAN MENDOZA R88017 OK. ANALVACTSTERON MORROW RE2541 (205) KURKTING-569 FRED PEREZ 2AJ573(607) CES 279 AltonSO SALAZAR R87995 TRUSPORT 05 JOEL SAliNAS R92974 CES 285 ERENT Sittig R88001 277 ALTOM 20 BRIAN IABOR P535884 (3724) CES 290 CANdido ROSAles CES 275 KENIN WILSON RS7991 [277] [RS7993]
CES BUSH BRAD WOOD RS7991

BRIAN TABOR ALTON BRIAN Weathers CES BRIAN WITSON PULPS JUAN Frias SCES JUAN MENDOZA SCES

KEVEN WILSON CES

AIPREDO GARZA MASKON GRILL AIFONSO SalaZAR

BRIAN TABOR JALTOM Jerry Bohler JALTOM

RICARDO) DE LUNA'S - Brothers ROBERTO

ADRIAN COSSILLAS

ROBERTO HERE - RICARDO AT KNITC

Greg & BOWMAN

KERY Wells Johnnie on spot 045 HK4 + 5133

Mike Rudd Denvis Shaddix

ATTACHMENT B- What to Seize

The following property may be seized from the property described in Attachment A:

1. Environmental samples from the air, soil (both surface and subsurface), water (both surface and subsurface), sediment, waste piles, tanks, trailers and containers found at PACES.

Document Searches

With respect to the following paragraphs the term "Documents" or "document" means and includes (1) writings of any kind (including those which are wholly or partially in handwriting and including any e-mail or similar electronically transmitted message which is capable of being produced in document form; (2) writings currently stored on microfilm or other film record; (3) writings capable of being produced in document form that are stored on a computer disk, hard drive or other type of memory device generally associated with computers; (4) every document which is not an exact copy of any document produced; (5) every copy of any document produced which has any writing, figure, notation or annotation on it; and (6) any attachments or enclosures referred to in any document produced.

- 2. All documents which relate to any or all of the following: the characterization, treatment, storage, transportation or disposal of hazardous wastes at CES Environmental Services.
- 3. All documents which relate to any or all of the following: the purchase, billing, storage, use or disposal of materials or wastes.
- 4. All documents which relate to any or all of the following: the source(s) of the materials and waste generated, treated and disposed of at CES Environmental Services.

- 5. All permits, licenses or similar documents issued by either the State of Texas or the United States of America.
- 6. Additionally, I know from my training and experience that the aforementioned documents and communications are routinely kept on or in computer storage devices.

Computer Searches

- 7. Based upon my training and experience, I have learned the following about computer systems and the necessity to search them for evidence. Searching and seizing information from computers can often be accomplished by creating a bit by bit copy of an existing computer drive which allows the information contained on such computer drives to be searched later by a qualified computer expert in a laboratory or other controlled environment. This is true because computer storage devices like hard disks, diskettes, tapes, laser disks, and Bernoulli drives can store the equivalent of thousands of pages of information. Additionally, if a suspect tries to conceal evidence of criminal activity, he or she might store it in random order with deceptive file names. This may require searching authorities to examine all stored data to determine which particular files is evidence or instrumentalities of a crime. This sorting can take weeks or months, depending on the volume of data stored, and it would be impractical to attempt this kind of data search onsite.
- 8. Computer passwords and other data security devices are assigned to restrict access to or hide computer software, documentation or data. Data security devices may consist of hardware, software, or other programming codes. A password (a string of alpha-numeric characters) usually operates as a sort of digital key to unlock particular data security devices. Data security hardware may include programming encryption

devices, chips, and circuit boards. Data security software or digital code includes any programming code that creates a test or hot keys, which perform certain pre-set security functions when touched. Data security software or code may also encrypt, compress, hide, or booby-trap protected data to make it inaccessible or unusable, as well as reverse the process to restore it.

- 9. At times however, hardware or software incompatibility can require agents to seize most or all of a computer system's input/output (I/O) peripheral devices, related software, documentation, and data security devices, including passwords, so that a qualified computer expert can accurately retrieve the system's data in a laboratory or other controlled environment. This is true because the peripheral devices which allow users to enter or retrieve data from the storage devices vary widely in their compatibility with other hardware and software. Many system storage devices require particular I/O devices in order to read the data on the system. It is important that the analyst be able to properly reconfigure the system as it now operates in order to accurately retrieve the evidence listed above. In addition, the analyst needs the relevant system software operating systems, interfaces and hardware drivers and any application software which may have been used to create the data whether stored on hard drives or on external media, as well as all related instruction manuals or other documentation and data security devices in order to search computerized information for evidence and instrumentalities of a crime.
- 10. If, after inspecting the I/O devices, software, a documentation, passwords, and data security device, the analyst determines that these items are no longer necessary to retrieve and preserve the data evidence, I will return them within a reasonable time. I

submit that, if the personnel who are present at the site, who control the accessing codes, including passwords and data security devices, to the computers present at the site cannot or will not provide the necessary passwords or other accessing information needed to search and seize the items listed herein, then I will seize the hardware.

Special Search Request.

- 11. Based on my training and experience I have learned that some evidence may be located in company owned vehicles that are on the premises, approaching the premises or are leaving or attempting to leave the premises during the execution of a search warrant. Therefore I request that I be allowed to search vehicles that are identified as owned or operated by CES. The identification of CES operation or ownership would be made by name and markings visible on the outside of the vehicle.
- 12. Based on my training and experience I have learned that a large amount of evidence can be contained on laptop computers that are taken home and used at home for work related projects. Due to the portability of laptop computers it may not be known if a laptop is present with one of those persons that have been identified by more than one former employee as a person that usually takes home a laptop computer and work related documents. Therefore I am requesting to search the vehicles of Matt Bowman, President of CES, and of Greg Bowman, Vice President of CES, for a laptop computer; computer storage devices to include mini and micro storage cards or CES related documents. I am requesting that the search be allowed if the vehicle is present at CES facility property, approaching CES facility property, or leaving or attempting to leave CES property during the execution of the Search Warrant.

PERSONAL HISTORY

ARREST/INDICTMENT	WITNESS	INFOR	MANT	COMPA	TO YV	HER
NAME (Last, First Middle)					FILE NO.	
ADDRESS					PHONE	
CITY, STATE ZIP						
DATE OF BIRTH PLACE O	F BIRTH	SOCIAL SECURI	TY NO.		EPA	CII NO
SEX RACE	HEIGHT	WEIGHT	HAIR	EYES		FBI NO.
SCARS, MARKS, TATOOS						
DRIVERS LICENSE NO.	STATE	EXPIRATION		OTHER	NUMBER	•
EMPLOYER AND ADDRESS	5					PHONE
OCCUPATION	CITIZENSHIP	NATIONALITY		DRUG A	ABUSER	HAZARD
ALIASES, NICKNAMES						
CRIMINAL HISTORY/REMAI	RKS (use additional	sheets if necessary)			
DATE OF ARREST/ INDICTMENT	PLACE OF ARRE	ST	CHARGE			
DISTRICT	FED/STATE	DISPOSITION				
REPORTING AGENT		DATE	AP	PROVING OFFI	CIAL	DATE

Individuals For Interview

CES Griggs Road

CES Port Arthur

Joy Baker

Steven Stricker

Sam Brown

Bo Cumberland

Noah Barry

Vehicle Dispatcher

Clint Hopkins

Ramiz Tafilaj

Prabhaker Thangudu

Joe Acosta

Vehicle Dispatcher

All Drivers, Laboratory and Sales Employees Who Are Willing To Be Interviewed

PERSONAL HISTORY

ARREST/INDICTMENT	WITNESS	INFOR	MANT	COMPAN	V OT	HER
NAME (Last, First Middle)					FILE NO.	· · · · · · · · · · · · · · · · · · ·
ADDRESS					PHONE	
CITY, STATE ZIP						-
DATE OF BIRTH PLACE C	F BIRTH	SOCIAL SECURI	TY NO.		EPA	A CII NO.
SEX RACE	HEIGHT	WEIGHT	HÁIR	EYES		FBI NO.
SCARS, MARKS, TATOOS						
DRIVERS LICENSE NO.	STATE	EXPIRATION		OTHER	NUMBER .	
EMPLOYER AND ADDRESS	3					PHONE
OCCUPATION	CITIZENSHIP	NATIONALITY		DRUG A	BUSER	HAZARD
ALIASES, NICKNAMES						
CRIMINAL HISTORY/REMA	RKS (use additional	sheets if necessary) ·			
DATE OF ARREST/ INDICTMENT	PLACE OF ARRES	ST	CHARGE			
DISTRICT	FED/STATE	DISPOSITION				
REPORTING AGENT		DATE	AF	PROVING OFFIC	CIAL	DATE
		→			1.5	•

Process workers Questions:

- 1. How long have you been CES employee?
- 2. Who did you work for before CES, any chemical experience?
- 3. What process do you operate?
- 4. Who is your immediate supervisor?
- 5. Have you ever been injured at CES?
- 6. If so was the injury reported and to who?
- 7. Have you ever <u>not</u> been provided with ppe, respirator or H2S monitors when required or needed?
- 8. Have you ever been ordered to push chemical spills into the city's sewer drain?
- 9. If so who ordered it?
- 10. Have you ever been ordered to clean up chemical spills and put the material used to clean up in the regular trash can, if so when and what chemical?
- 11. Have you ever been told by anyone to conceal information from regulatory (OSHA, TCEQ, EPA, HPD) about CES processes or operations?
- 12. Have you ever provided a written or recorded witness statement to anyone concerning injuries or fatalities about CES employees?
- 13. Is there anything else you feel that we need to know about?

Drivers Questions:

- 1. How long have you been a driver, how long CES driver?
- 2. Who did you drive for before CES, any chemical loads experience?
- 3. Who is your immediate supervisor?
- 4. Who orders you to pick up and drop off loads?
- 5. Have you ever been injured at CES?
- 6. If so was the injury reported and to who?
- 7. Have you ever <u>not</u> been provided with ppe, respirator or H2S monitors when required or needed?
- 8. Can you explain the term "blind load"?
- 9. If you don't know the term, have you ever picked up a load and delivered to another location and been ordered not to show the original manifest but instead switched to a manifest that shows CES as the generator.
- 10. If so who ordered it?
- 11. Have you ever been ordered to change a placard or shipping document while enroute with a load?
- 12. If so, who ordered the change?
- 13. Have you ever transported loads that the manifest did not reflect the route, chemicals transported, or the placards required?
- 14. Have you ever driven hazardous loads with an expired commercial driver's license hazardous materials endorsement?
- 15. Did you tell anyone in management about the expiration?
- 16. Have you ever provided a written or recorded witness statement to anyone concerning injuries or fatalities about CES employees?
- 17. Have you ever transported a load for CES that you questioned the legality of, if so could you explain?
- 18. Is there anything else you feel that we need to know about?

CES salesperson/dispatcher questions:

- 1. How long have you been a CES employee?
- 2. Who did you work for before CES, any chemical company experience?
- 3. Who is your immediate supervisor?
- 4. Can you explain the term "blind load"?
- 5. If you don't know the term, have you ever ordered or set a load to be delivered to another location and ordered the driver not to show the original manifest but instead switched to a manifest that shows CES as the generator.
- 6. If so who, where did you learn to do the loads this way, is upper management aware of this set up.
- 7. If yes, who is aware of this set up?
- 8. Have you ever directed anyone at CES to change a placard or shipping document while en-route with a load?
- 9. If so, why?
- 10. Have you ever directed loads that the manifest did not accurately reflect the origin and destination, chemicals transported, or the placards required?
- 11. If yes, why?
- 12. Were you ever aware of a driver transporting hazardous loads with an expired commercial driver's license hazardous materials endorsement?
- 13. Did you tell anyone in management about the expiration?
- 14. Have you ever provided a written or recorded witness statement to anyone concerning injuries or fatalities about CES employees?
- 15. Have you ever been involved in a transaction between CES and another company concerning the transportation or disposal of hazardous materials (or waste) that you questioned the legitimacy of?
- 16. Is there anything else you feel that we need to know about?

U.S. Environmental Protection Agency Criminal Investigation Division

EPA Operational Plan

	se Name/Number 06-0015	Area/Resident/Field Office Dallas Area Office/Houston Field Office	Case Agent/Cell Phone 713-245-6825
	efing Date/Time/Location 03/2009		
4pr Por 645	n rt Arthur Police Department 5 4 th Street, Port Arthur TX 77641		
08. 6an	ging Date/Time/Location /04/2009 n t Arthur Police Department		
	eration Date/Time 04/2009 n		
Ty	pe of Operation		
	earch Warrant UC Oper crest Warrant Consent		ance/Technical Installation
Ove	erview		
	rrant Required	☑ Yes □	No
	ensic/Laboratory Support Requested	∑ Yes ☐	No
	hnical/NCFL Support Requested	⊠ Yes □	No
	alth and Safety Plan Required		No
run	ds Requested from Operations Branch	X Yes	No
· 1.00	zistics		<u> </u>
	d Prosecutor/Judicial District or State	Phone Number	
	cky Piaggione/ ECS (Eastern District o		
Lea	d Sampling Support	Phone Number	
	Irea Abat	214-789-2586	
	ita Keglar		
	d Technical/NCFL Support	Phone Number	
Chu	ick Gilpin	904.545.5743	
	C/ASAC Contact la Brown	Phone Number 713-384-2207	
Fed	eral/State/Local Regulatory Contactt	Phone Number	
Guy	Tidmore	214.789.2586	
	ticipating Agencies & Divisions		Number of Personnel
$\frac{1}{2}$	EPA Criminal Investigation Divis	ion	5
2.	EPA Computer Crimes EPA Forensic Support		4
<u>3.</u> 4.	DOT OIG		8 2
-4. 5.	TCEQ		
-5. 6	TPWD		2
- 7.	Port Arthur Police Department		5
8.	Travis County DA		1

 9	Coast Guard MSU P	ort Arthur			4 people in 2 marked
					vehicles & 2 boats with
				 	3 man crews
10	CGIS				1

Operation Location

Name/Address
Port Arthur CES (PACES)
2420 Gulfway Drive, Port Arthur, TX 77640

Telephone Number 409-983-5858

Description

The property to be searched is described as follows: PACES - Approximately 11.0 acres of land with a large metal warehouse type building located South of Port Arthur on an unnamed road located off Texas State Highway 82 just north of a large bridge crossing a body of water. There is access to a neighboring business to the South named KMTEX. There is access to the land and there is also a railroad spur.

Additional directions would be described as: Begin at the intersection of Texas State Highway 87 and Texas State Highway 82. Go south on Texas State Highway 82 for approximately 2.8 miles. At the location of Texas State Highway 82 and a bridge crossing a waterway there is an unnamed street on the East (left) side of Texas State Highway 82. Turn east (left) onto unnamed street. A sign will be seen on the South (right) side of unnamed street displaying the words "Port Arthur Chemical & Environmental Services, LLC" with a solid line underneath this writing and then the words "Production Facility" written underneath the solid line. Go east approximately 0.2 miles over railroad tracks. The facility is located on the south side of unnamed street and is within a chain link fence that borders the unnamed street.

There are two locations in the chain link fence that appear to have electronically operated gates. The western gate was operational on April 29, 2009. Affixed to the chain link fence to the East (left) of the gate appears a sign that displays the words "CES Environmental Services, Inc." It is not known if the eastern gate is operational. The facility also has a boat dock that was also operational on May 19, 2009 during a flyover of the facility.

<u>-</u>			
□ Diagram Attached	☐ Photo Attached X		

	and the second of the second o		
Special Considerations			
Physical Fortifications	☐ Counter Surveillance	Animals	
X Chemical/Physical Hazards	High Crime Area	Close Proximit	y to Schools
Children Present	Approach Difficulties	s Vehicular Traff	ic Difficulties
High Level of Foot Traffic	Location Frequented		nt at Target Location
☐ Explosives	Language	☐ Weather Issues	
Media Expected	☐ Violence	Persons with O	utstanding Warrants
Other			J
			
Individuals Potentially on Sit	te		
Name	Title/Relationship	NCIC Check Conducted/Results	Photo Attached
Steve Stricker	Plant Manager	XYes No	X Yes No
		Yes No	☐ Yes ☐ No
		☐ Yes ☐ No	Yes No
	, i		
		☐ Yes ☐ No	Yes No
		☐ Yes ☐ No	Yes No
			100

The case originated from a lead while investigating a case named Texas Oil and Gathering (TOG, EPA CID case number 1600-0088). The case was provided with witness information from the EPA "Tip Line". Information from TOG documents shows CES was brokering loads from PPG (a generator) to TOG in a "sham recycling" scheme. Several drivers alleged that placards were being changed en route, identifying loads as less hazardous. The loads were also being transported on two separate manifests at the same time. TOG was prosecuted by DOJ ECS Prosecutor Rocky Piaggione and resulted in a plea deal that has provided additional information on CES.

CES Environmental Services has two locations. The main location is 4904 Griggs Road, Houston, TX 77021 (CES-HOU). The Texas Commission on Environmental Quality (TCEQ) regulatory files indicate that CES-HOU operates a tank cleaning and waste handling business, and wastewater treatment, and has done so since taking over the facility in 2002. Though not permitted as a Treatment, Storage, and Disposal (TSD) facility, it is alleged that the facility has received, stored and processed volatile organics compounds (VOCs), including methyl ethyl ketone; and benzene, toluene, xylene and ethylbenzene-containing waste streams. Additionally, CES-HOU allegedly discharged wastes to the sanitary sewer with high levels of VOCs which caused an upset of the City of Houston POTW. It is further alleged that 55-gallon drums believed to contain spent caustics were illegally stored at CES-HOU and were removed following their discovery during a Houston Fire Department inspection and are now believed to be stored at CES-PA.

The other CES facility, located at 2420 South Gulfway Drive, Port Arthur, TX, (CES-PA), began operation in September 2008, and is classified as a sodium hydrosulfide (NaSH) production and transfer facility. As described by the TCEQ, the NaSH process entails the oxidation and acidification of an aqueous feed stream composed of dissolved sodium salts and Sulfurized isobutylene oil. The reaction is then routed via a closed system to a sodium hydroxide solution where it is further reacted to produce the NaSH solution. The final product is temporarily stored in above-ground storage tanks, tanker trucks or ISO containers prior to being shipped off-site. A flare and a caustic scrubber tank to control emissions are utilized on-site. Though not permitted as a TSD facility, it has allegedly received, stored and processed spent caustics, sodium sulfide and miscellaneous waste hydrocarbons which have been used in processes on site.

It is alleged that CES personnel have illegally transported hazardous wastes between CES-HOU, CES-PA, and to an underground injection well located in Winnie, TX. It was recently learned that this injection well has rejected loads from CES-PA for reasons such as hydrogen sulfide (H2S) greater than 10 ppm, pH less than 2.0, and flash below 140 degrees. It is further alleged that CES personnel have illegally stored, treated and disposed of hazardous wastes at both the CES-HOU and CES-PA facilities. This activity has allegedly included the use of alternate placards, altered hazardous waste manifests and bills of lading, and additional false statements on statutorily-required documentation for EPA, DOT and TCEQ. Two industrial incidents resulting in deaths occurred at CES-PA on December 18, 2008 (cause of death attributed by the coroner to hydrogen sulfide poisoning), and April 14, 2009 (cause of death report not finalized), respectively. Witnesses to the incidents indicated the victims became ill following chemical exposures. In addition, another industrial incident resulting in a death occurred at CES-HOU on July 7, 2009 (cause of death report not finalized) following an explosion at that facility involving a non-intrinsically safe flashlight

exposure to hazardous vapors in a headspace above a dome-lid on a tanker truck.

It has been learned that the Coast Guard Marine Safety Unit (MSU) Port Arthur was investigating CES-PA. The investigation was as a result of boat patrol in the Sabine Pass River Basin. The initial investigation revealed that CES-PA had no permits to operate any processes. The Coast Guard MSU provided documents to EPA CID. Those documents include a Material Safety Data Sheet (MSDS) that indicates that spent caustic, generated by CITGO Lake Charles, LA, is being delivered to CES-PA by barge.

The Coast Guard MSU also discovered a foreign vessel with a Panama flag named the "Golden Charlotte" offloading a chemical. With assistance from CGIS, it was discovered that the chemical being offloaded was sodium sulfide. The Coast Guard MSU terminated CES-PA barge operations until a Security Plan was written and followed.

It was learned the week of July 13, 2009, that an EPA civil inspection had occurred at CES-HOU on March 17-19 and April 29, 2009. The inspection discovered that there were tanker trailers containing what EPA sampling revealed as ignitable (D001) and shipped as waste D001 and F003, but there was no label on the trailers with the words "Hazardous Waste", and there was no documentation that the containers were inspected weekly. 300-gallon totes located on site contained ignitable (D001) contents, but were not labeled "Hazardous Waste". Also, CES did not provide MSDS information as requested by EPA.

The CES Environmental Services Port Arthur, TX (CES-PA) facility located at 2420 South Gulfway Drive, began operation in September 2008, and is classified as a sodium hydrosulfide (NaSH) production facility. As described by the Texas Commission on Environmental Quality (TCEQ), the NaSH process entails the oxidation and acidification of an aqueous feed stream composed of dissolved sodium salts and Sulfurized isobutylene oil. The reaction is then routed via a closed system to a sodium hydroxide solution where it is further reacted to produce the NaSH solution. The final product is temporarily stored in above-ground storage tanks, tanker trucks or ISO containers prior to being shipped off-site. A flare and a caustic scrubber tank to control emissions are utilized on-site. Though not permitted as a Treatment, Storage and Disposal (TSD) facility, it has allegedly received, stored and processed spent caustics, sodium sulfide and miscellaneous waste hydrocarbons which have been used in processes on site.

Subject	Information (Comp	olete one for each subj	ect)					
Subject's Steven K	Name enneth Stricker			te of Birth /06/1950		Race w		Sex m
Aliases Steve	on/Characteristics (Height, Weight, Scars,	Marks Tatton	s I anguaires	etc.)		,	
5-11; 20 Home Ac	0 lbs; black hair; bro	own eyes	, iviaixs, Tattoo	Work Add	ess and Telep	hone Numbe	:	
	, Texas 77515			645 4 th Stre Port Arthur	eet , Txas77641			
Other Ad N/A	dresses Used							
☐ Yes	nown to Be Armed No			Photograph	Attached No			
Criminal Arrest Describe: N/A	s Convictions	s ☐ History of Vio	lence					
☐ Menta☐ Anti-C☐ Specia	ll Information Il Illness Jovernment dized Training (Fire Ince Abuse	arms, Martial Arts, M	ilitary, etc.)					
Subject V								
Year	Make	Model	Color	Lic	ense (State)	C	ther	
UNK								
(A)								

Tactical Plan of Entry/Service

The primary objective To conduct a search warrant of the CES facility at 0700 Hours, 08/04/2009 located at 4904 Griggs Road, Houston, Texas, simultaneously with a search warrant located at the CES property located 2420 Gulfway, Port Arthur. Activities will include but not limited to the following:

a.) Secure access to the facility through the main entrance of CES by Houston Police Department. Once the facility office is secured by the initial entry Team the remainder of the search warrant Team will be brought on sight through the same entrance. Security will be maintained at all Entrances and exits of the facility uring the course of the search warrant.

Special Actions that will be taken to Secure the Site and Ensure Safety

The entry Team will consist of two distinct groups, LEO's plus NCERT and NEIC members. Both groups will proceed directly to the Office building. Once the Office Building has been secured the NCERT/NEIC personnel will conduct a health ands safety sweep of the process and process related areas. All computers will need to be secured at the time of the initial safety sweeps both in the office area and wherever found.

NCERT/NEIC personnel should be the only members in process area or process related areas until an all clear is received by the Command Post.

All employees will be advised to proceed to the training center. Once the employees are properly identified the employees will be allowed to leave the facility if they so choose. Key individuals identified in the briefing will be interviewed if they consent to the interview.

Samples will be collected by NCERT/NEIC personnel

Special Equipment Require	d for Personnel (Check all tha	at apply)	
Shotgun			Binoculars
Trauma Kit			Flashlight
SCBA/Respirator			Photo/Video Equipment
Bolt Cutters			Fire Extinguisher
Ladder/Step Stool			Cold Weather Gear
Steel Toed Boots		\boxtimes	Hardhat
Other (Specify below)			

THE NCERT/NEIC WILL PROVIDE ALL SPECIAL EQUIPMENT FOR SAMPLING IN A CONTAMINATED ZONE.

* DENOTES ARMED LAW ENFORCEMENT OFFICER (LEO)

Personnel and Assignments			
Name	Cell Phone	Agency	Assignment(s).
MICE MONDOWA	(b) (6)		(MD 1) (X X X 1) (MD 1)
MIKE MORROW*		EPA CID	TEAM LEADER
BILL STEVENS*		EPA CID	INITIAL ENTRY TEAM (MAIN OFFICE)
			(MAIN OFFICE)
BRETT SPIERS*	7	EPA CID	INITIAL ENTRY TEAM
			(MAIN OFFICE)
CHRIS OVERHAUSER*		EPA CID	INITIAL ENTRY TEAM
			(MAIN OFFICE)
IOE ZSCHIESCHE*		DOTOIG	MAINTENANCE OFFICE
NORM LAYTON*	-	DOT OIG	MAINTENANCE OFFICE
HOMM DUT TON			MAINTENANCE OFFICE
EN COMPTON SE	-	TOTAL CATE	A CIPTORIA CONTRA
IIM TOWNSEND*		EPA CID	MAINTENANCE OFFICE
IONATHAN GREY*		TPWD	LABORATORY INSIDE WAREHOUSE
			WAREHOUSE
DENNIS RUDDER*		TRAVIS COUNTY DA	LABORATORY INSIDE
			WARHEHOUSE
TOM GAGE*		CGIS	OFFICE AFTER ALL CLEAR
DAN MCREYNOLDS		TCEQ	OFFICE AFTER ALL CLEAR
ROGER GARCIA	_	TCEQ	OFFICE AFTER ALL CLEAR
NOODIE GIACOIA		Tella	OTTICE AN TEXABECTEAR
ANDREA ABAT*		EDA CITO	NOTETE
MUKEA ABAIT		EPA CID	NCERT
*			
IM SEIDEL*		EPA CID	NCERT
BRANDON SOLARI*		EPA CID	NCERT
ERITA KEGLAR		NEIC	NEIC
MATT SCNEIDER		EPA	NEIC
ACOD STOWELL		EDA	NETC
ACOB STOWELL		EPA	NEIC

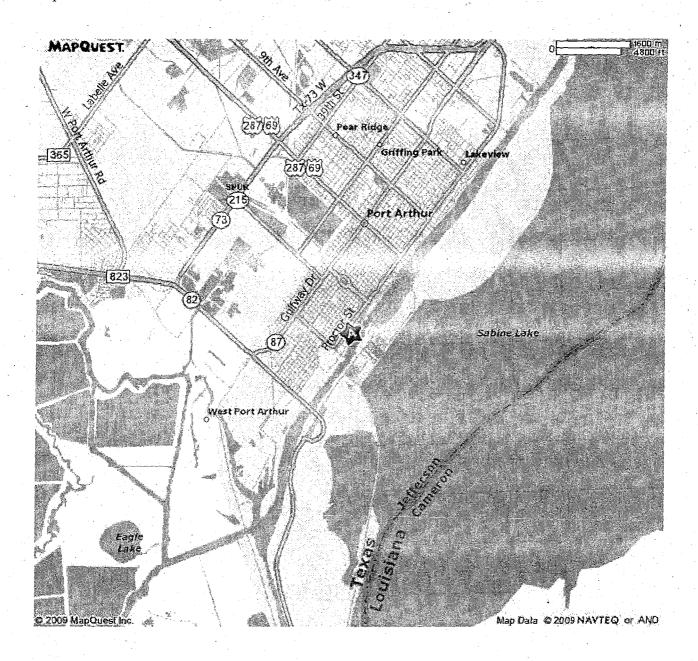
JESSICA DUGAN (b) (6)	EPA	NEIC
CHUCK GILPIN*	EPA CID	COMPUTER FORENSICS
CARLTON PATTON*	EPA CID	COMPUTER FORENSICS
al v Mile		
MIKE CENTOLA*	EPA CID	COMPUTER FORENSICS
JESSICA DUGGAN	EPA	-COMPUTER FORENSICS
		* * * * * * * * * * * * * * * * * * *
DETECTIVE PRIMM*	PAPD	OFFICE AFTER ALL CLEAR
DETECTIVE VANHORN*	PA PD	OFFICE AFTER ALL CLEAR
DETECTIVE MINGO*	PA PD	OFFICE AFTER ALL CLEAR
DETECTIVE MOLFINO*	PAPD	OFFICE AFTER ALL CLEAR
DETECTIVE ROWE*	PAPD	OFFICE AFTER ALL CLEAR
COAST GUARD	COAȘT GUARD	LAND SIDE SECURITY TO
WILL ATTACH NAMES		BE PROVIDED 8PM TO 8AM UTILIZING 2 CARS AND 4
COAST GUARD	COAST GUARD	COAST GUARD
COAST GUARD TO	COAST GUARD	WATER SIDE WILL PROVIDE 2 BOATS WITH 3 MAN
PROVIDE NAMES		CREWS FOR ROVING BOAT
PORT ARTHUR POLICE	PA PAD	PATROLS. LAND SIDE SECURITY TO
OFFICERS* FOR GATE SECURITY		BE PROVIDED 8AM TO 8PM
DECURITI		UTILIZING A FOUR MAN ROTATION ARRANGED BY
CONTRACTORS LIST TO	GOVERN + CARON G	PA PD.
BE PROVIDED BY GUY	CONTRACTORS	
TIDMORE		

Name	LEO ALL LEO'S HAVE BEEN PREVIOUSLY DENOTED BY AN * ON THE ASSIGHNMENT SHEET						
Tvame	Cell Phone Number	Electronic Equipment	Radio Frequency	Vehicle Description	Description/ Clothing		
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	SSIGNMENT SHEE						
Name	Cell Phone	Electronic	Radio Frequency	Vehicle	Description/		
· .	Number	Equipment		Description	Clothing		
1		*					
Arrest Signals							
Visual	Verbal		Tex	t Message			
Visual	Verbal		Tex	t Message			
Visual	Verbal		Tex	t Message			
Visual N/A	Verbal		Tex	t Message			
Arrest Signals Visual N/A Distress Signals Visual	Verbal			t Message			

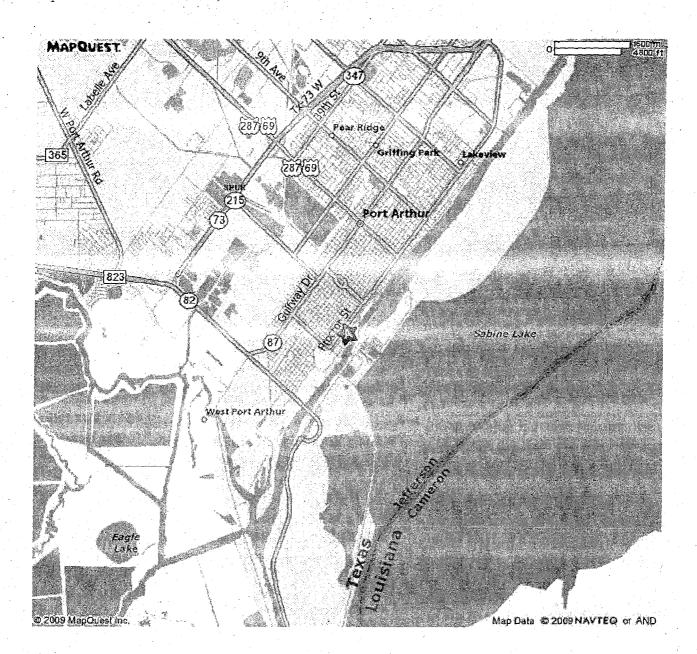
Additional Information

Police and Fire			
	Name	Address	Phone Number (Non-Emergency)
Police They are on scene assisting. Notification Has Occurred Notification Will Occur	Port Arthur Police Department	645 4 th Street, Port Arthur, Texas 77641	409-983-8611
Fire Notification Has Occurred Notification Will Occur	PORT ARTHUR FIRE STATION #4	5642 SOUTH GULFWAY DRIVE PORT ARTHUR, TEXAS	409.971.2421
Emergency Information		X Map Attached (attachment I	<u>1)</u>
Nearest Hospital/Trauma Center CHRISTUS HOSPITAL-St Eliza	abeth (Level III Trauma Center)	Address 2830 Calder Street, Beaumon	nt, Texas 77702.
ATTACHMENTS Attachment I Diagrams of Attachment II Items to be Attachment III Briefing S Attachment IV Map of sta Attachment V NEIC HAS Attachment VI Photo of S EPA Use of Force Policy Revi	seized ite/Rendezvous point ging area P to include routes to H tricker	lospital	
News Media All media requests will be forwar media/news, if present.	ded to the SAC for further action	on. Other personnel will not prov	vide statements to
THIS OPERATIONAL PLAN IS A SUSPECT(S) OR SUBJECT(S) DO WILL BE MADE DURING THE TIME. AGENTS MAY USE ADI	ICTATE THAT THE TEAM A OPERATION AND WILL BE	LTER THE PLAN IN SAFER M BASED ON THE INFORMATION	MANNER. THIS DECISION
Plan Prepared By	Ly St		Date 7/30/09
ven la D.	AC/ASAC (if delegated)	Ash SAC	Date 7-31-09
Plan Approved by HQ (if require	d)	0	Date

ATTACHMENT III



ATTACHMENT IV



NEIC HEALTH AND SAFETY PLAN

General Information

1. Project Title:

CES Environmental Services (Port

Project Number:

RP1321

Arthur & Griggs Rd).

2. Location:

2420 Gulfway Dr, Port Arthur, TX and 4904 Griggs Rd, Houston, TX

3. Description of Field Activities:

Conduct site assessment and collection of evidentiary samples at the two CES facilities. During the on-site search scheduled for the week of August 3, 2009, NEIC, HSD, EPA Region 6, CID, and Superfund Contractor personnel will undertake the following tasks:

- 1. Perform initial site assessment, documentation of site conditions and the identification of those containers that's contents would be expected to exhibit RCRA hazardous waste
- 2. Perform and document the process operations at both of the facilities.
- As practical, conduct an inventory of the containers of improperly stored material.
- Conduct an on-site field screening for visual characteristics and container labeling
- Collect evidentiary samples to support the alleged RCRA violations

4. Date of Field Activities:

Week of August 3 2009

5. Field Personnel:

Kerita Kegler

Project Leader Michael Mosley, Mathew Schneider, Stewart Simpson, Jessica Dugan and Johnny Lee (NEIC); Andrea Abat, Brandon Foreman, Kurt Grunert, Jimmy Seidel, Brandon Solari (HSD) and Bill

Stevens (CID), Guy Tidmore (Region 6), and local fire department representatives.

6. Contractor Personnel:

EPA Superfund Contractor

Emergency Information

7. Ambulance:

Houston Fire Department(EMS)

Phone: 911

Non-emergency dispatch: 713-837-0311(311)

Port Arthur Fire Department

Phone: 911

Non-emergency dispatch:

8. Hospitals:

Port Arthur

Griggs Road

Christus Hospital-St. Elizabeth (Level III Trauma Center)

Ben Taub Memorial Hospital (Level III Trauma Center)

2830 Calder Street Beaumont, Texas 77702 409.892.7171 Direct

1504 Taub Loop Houston, Texas 77030 713.873.2000 Direct &

409.899,7000 Emergency Room

Emergency Room

9. Emergency Route:

see attached directions

10. Fire Department:

Port Arthur FD

Phone: 911

Non-emergency dispatch:

409-983-8700

Houston FD

Phone 911

Non-emergency dispatch:

11. Police:

Port Arthur PD

Phone: 911

713-837-0311 (311) Non-emergency dispatch:

409-983-8600

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CES Environmental Service

Houston PD

Phone: 911

Non-emergency dispatch: 713-884-3131

12. Poison Control

Center:

Phone: 800-222-1222

13. Site Emergency

Notification/Evacuation Method:

Will follow facility procedures; cell phones will be available.

14. NEIC Health and Safety Officer:

Steve Fletcher 303-462-9007

15. Radiation Safety Assistance:

Jed Harrison Director 702-784-8220

Office of Radiation Programs, Las Vegas Facility

16. Check all known or potential hazards:

__ Radiation

X Toxics

X Fire/Explosion

X Elevated Heights

X Corrosives

O₂ Deficiency

X Noise

X Physical

__Biological

X Dusts X Heat/Cold Stress

17. Potential Chemical Hazards:

CHEMICAL	TLYADLH	ROUTE OF EXPOSURE	ACUTE HAZARD/ SYMPTOMS	ODOR THRESHOLD	ODOR/VISUAL DESCRIPTION
Hydrogen Sulfide	I ppm., 5ppm STEL, 20 ppm ceiling PEL/100 ppm	Inhalation, contact	Dizziness, convulsions, coma, burns throat, eyes and skins	0.001 ppm (poor warning)	Colorless gas with strong odor of rotten eggs
Methylene Chloride*	-25 ppm PEL 125 ppm STEL PEL/2,300 ppm	Inhalation, ingestion, contact	Fatigue, weakness, sleepiness, lightheadedness; limbs numb, tingle; nausea; irritating eyes, skin	160 ppm (poor warning properties)	Colorless liquid with a chloroform like odor
Solvents (unknown)	Varies-skin	Inhalation, ingestion, absorption, contact	Headache, nausea, light- headedness, dizziness, fatigue, eye, skin & respiratory tract irritation	Varies/	Varies-liquid
Corrosives (unknown)	Varies	Respiratory, - skin and eye contact	Eye, skin and respiratory tract irritation	Varies	Irritating odor- liquids to solids
Sodium Hydroxide	2 mg/m ³ ceiling/10 mg/m ³	Inhalation, ingestion, contact	Eye, skins & respiratory tract irritation & burns	None	White solid or colorless liquid, odorless
Sulfuric Acid*(*refers to strong inorganic acid mists)	0.2 mg/m ³ 15 mg/m ³	Inhalation, ingestion, contact	Eye, nose and throat irritation, burns eyes and skin	0.15 ppm	Colorless to dark brown, oily liquid
Methyl Ethyl Ketone (MEK)	200 ppm/3,000 ppm	Inhalation, ingestion, contact	Eye, nose and throat irritation, dizziness, vomiting, headache	10 ppm	Colorless liquid with moderately sharp, fragrant mint-or acetone like odor
Methanol	200 ppm/ 6,000 ppm Skin	Inhalation, ingestion, absorption, contact	Eye, skin, & respiratory tract irritation, nausea, neuropathy, headache, drowsiness, vomiting, incoordination, vision difficulties	160 ppm	Colorless liquid with mild odor

<u> </u>					
CHEMICAL	TLV/IDLH	ROUTE OF EXPOSURE	ACUTE HAZARD/ SYMPTOMS	ODOR THRESHOLD	ODOR/VISUAL DESCRIPTION
Benzene*	0.5 ppm 2.5 ppm STEL/ 500 ppm Skin	Inhalation, absorption, ingestion, contact	Nausea, headaches, skin, eye and respiratory tract irritation	5 ppm	Colorless liquid with aromatic odor
Ethyl Benzene *	-50 ppm/125 STEL/ 800 ppm	inhalation, ingestion, confact	Eye and mucus membrane irritation headaches, dermatitis	0.6 ppm odor 140 ppm irritation	Colorless liquid with pungent aromatic odor
Toluene	20 ppm, 300 ppm ceiling PEL/ 500 ppm skin	Inhalation, ingestion, absorption, contact	Fatigue, weakness, dizziness, headaches, confusion, dilated pupils, eye irritation	5 ppm	Colorless liquid with a sweet pungent, benzene-like odor
Xylenes	100 ppm/ 900 ppm	Inhalation, ingestion, contact	Eye, nose and throat irritation, dizziness, drowsiness	20 ppm	Colorless liquid with an aromatic odor
Sulfur Dioxide	0.25 ppm ceiling/ 100 ppm	Inhalation, contact	Irritation to eyes, nose, throat; choking, cough, reflex broncho- constriction; eye, skin burns	2.7 ppm	Colorless gas with a characteristic irritating, pungent odor
Hydrogen Peroxide*	1 ppm/75 ppm	Inhalation, ingestion, contact	Irritation of eyes, nose, and throat; corneal ulcers	Unknown	Colorless liquid with slightly shard odor
Mercaptans (Methyl, Ethyl, Butyl)	0.5 ppm/ 150 ppm	Inhalation	Headache, nausea, respiratory irritation, narcosis, cyanosis	0.1 ppb	Rotten egg/sulfur odor

^{*}Potential or confirmed carcinogen

18. Specify unusual working conditions/limitations: The teams will be working in hot and humid conditions at possible elevated heights while wearing level B personal protection. Field team members will wear hardhats, steel-toed work boots, hydrogen sulfide meters and will work in pairs. Because of the chemical nature of hydrogen sulfide, the teams should wear long sleeve shirts at all time while on site. The team will downgrade to level C if necessary for process documentation and walk through. Level B will be donned while sampling. 29 CFR 1926.501(b)(1) states that "Each employee on a walking/working surface (horizontal and vertical surface) with an unprotected side or edge which is 6 feet (1.8 m) or more above a lower level shall be protected from falling by the use of guardrail systems, safety net systems or personal fall arrest systems." The standard stresses that employers are required to "determine if the walking/working surfaces on which its employees are to work have the strength and structural integrity to support employees safely." Employers must also provide guardrail systems, safety net systems, or personal fall arrest systems for employees working at heights above 6 feet.

Since the teams will be working in level B PPE, medical monitoring will be required. Medical monitoring at the Port Arthur site will be conducted by the Port Arthur Fire Department with monitoring at the Griggs Road site conducted by the Houston Police Department. Listed below are the recommended medical monitoring guidelines that will be used while working in level B.

Pre-Entry Exclusion Criteria (per NFPA 471 Chap. 8-3)

- 1. Pulse > 70% age-predicted heart rate (see table)
- 2. BP> 105 mm Hg diastolic (lower)
- 3. $^{\circ}F < 97.0 \text{ or } > 99.5$
- 4. Respirations > 24/min

Pre-Entry Pulse

Age 70%

20-25 140

25-30 136

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CES Environmental Service

30-35	132
35-40	128
40-45	125
45-50	122
50-55	-119
55-60	116

Post-Entry Conditions Requiring Follow-Up

- 1. Post-entry weight loss of > 3%
- 2 °F> 101
- 3. Pulse> 85% age-predicted heart rate at 10 minutes (see table)
 Nausea, vomiting, altered mental status, or respiratory, cardiac or dermatological complaints

Post-Entry Pulse Age 85% 20-25 170 25-30 165 30-35 160 35-40 155 40-45 152 45-50 148 50-55 144 55-60 141

19. List tasks, potential hazards checked above, and control measures which will be taken, including levels of protection

Task	Hazards	Level of Protection (A, B, C, D) and Control Measures
Site Inspection	Toxics, noise, slip	Upon arrival, a safety sweep will be conducted in Level D, unless field
(General walk-	and fall hazards, and	judgment and conditions indicates the need to upgrade to Level C with a
through)	corrosives	full-face air-purifying respirator equipped with organic vapor/acid
		combination cartridges (GME-P100) or to Level B. The level D personal
		protective equipment (PPE) will include long sleeve shirts, hardhats, steel
A Company of the State of the S		toe boots, safety glasses, protective booties and chemical splash suits.
		Because of potential threats associated with the on-site activities and
		hydrogen sulfide generation, team members in level D will have their
		respirators with them at all times with select individuals also having a
		hydrogen sulfide detectors.
Site Inspection	Toxics, noise, slip	
(Documentation of	and fall hazards, and	Level D PPE will be worn unless field conditions indicate that upgrade to
Process)	corrosives	level C or to level B is warranted. Unless hazards are identified and if
	1 - 1 -	appropriate, level D protective equipment including hardhat, steel toe
		boots, safety glasses, protective booties and chemical splash suits will be
		worn during the process. Because of potential threats associated with the
		on-site activities and hydrogen sulfide generation, team members in level
		D will have their respirators with them at times with select individuals also
	'	having a hydrogen sulfide detectors.
Field screening,	Toxics, noise, slip	
inventorying and	and fall hazards, and	Level B PPE consisting of self-contained breathing apparatus (SCBA),
collection of	corrosives	hooded chemical splash suits, nitrile inner and outer gloves, and rubber
evidentiary samples		over-boots will be worn during field screening and sampling activities.
		Hazard monitoring will be conducted continuously. A decision will be
		made during the screening and sampling process concerning the possibility
		that the level of PPE could be downgraded to level C with a full-face air-
		purifying respirator with organic vapor/acid gas combination cartridges.
		This decision will be made after conferring with the field staff and
		reviewing monitoring information.

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CES Environmental Service

Physical stress will be minimized by wearing light clothing and drinking plenty of fluids prior to initiation of fieldwork. When working at heights, a safety-harness and fall protection shall be worn at all times.

20. Health . Hazard

Monitoring Plan: Health hazard monitoring will be conducted by NEIC, and HSD personnel.

Constituent	Type of Sample	Rrequency	Instrument	Notes:
Oxygen	Real Time	Initial/Continuous	Firstcheck+	Reassess if 19.5% < oxygen level < 23.5%
Volatile organics	Real Time	Initial/Continuous	Firstcheck+	Reassess if > 500 ppm
Flammable/ explosive gases	Real Time	Initial/Continuous	Firstcheck+, 1000	Reassess if > 10 % LEL
Carbon monoxide	Real Time	Initial/Continuous	Firstcheck+ 1000	Reassess if > 25 ppm
Hydrogen sulfide	Real Time	Initial/Continuous	Firstcheck+ 1000	Reassess if ≥ 5 ppm
Sulfur dioxide	Real Time	Initial/Continuous	MSA 5 Star	Reassess ≥2 ppm

21. Site Control/Security Measures: Site access will be controlled by CID personnel.

22. Decontamination Procedures: If necessary, contaminated non-disposable equipment and instruments will be

decontaminated in the field, and returned for a thorough cleaning at NEIC. Contaminated items (e.g. PPE and disposable sampling equipment) will be handled in accordance with the decontamination protocols in the NEIC Field Safety and Health Operating Procedure, NEICPROC/00-034. Personnel will observe good hygiene practices and follow the NEIC Field Safety and Health

Operating Procedure, NEICPROC/00-034.

23. Disposal Procedures:

If necessary, place disposable items in plastic bags and return to NEIC for

disposal. Disposal will be in accordance with NEIC Field sample and Health

Operating Procedures, NEICPROC/00-034.

24. Required health and safety supplies:

X Ice X Electrolyte Replacement X Bottled Drinking Water X Insect Repellant

X Sunscreen X Other (Water And Ice)

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Approvals

This site HASP has been reviewed and constitutes the minimum anticipated safety requirements for personnel engaged in field activities at this project site. However, the Project Manager has the authority to change these requirements, based upon the conditions present at the site.

24. Approved by:

Project	٨	Kan		~
FIULECT	-11	n all	140	CIT:

Date:

29 July 2009

Branch Chief

Date:

July 29, 2009

Health and Safety Officer

Date:

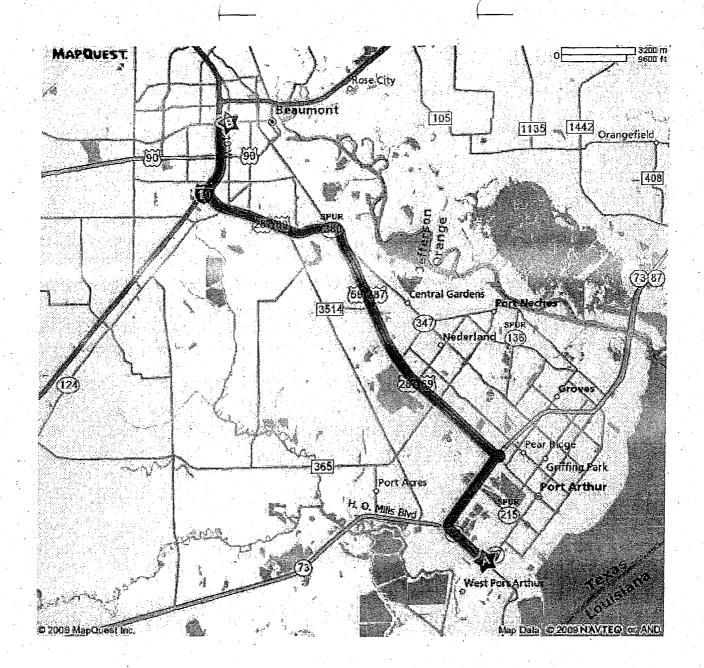
7/29/09

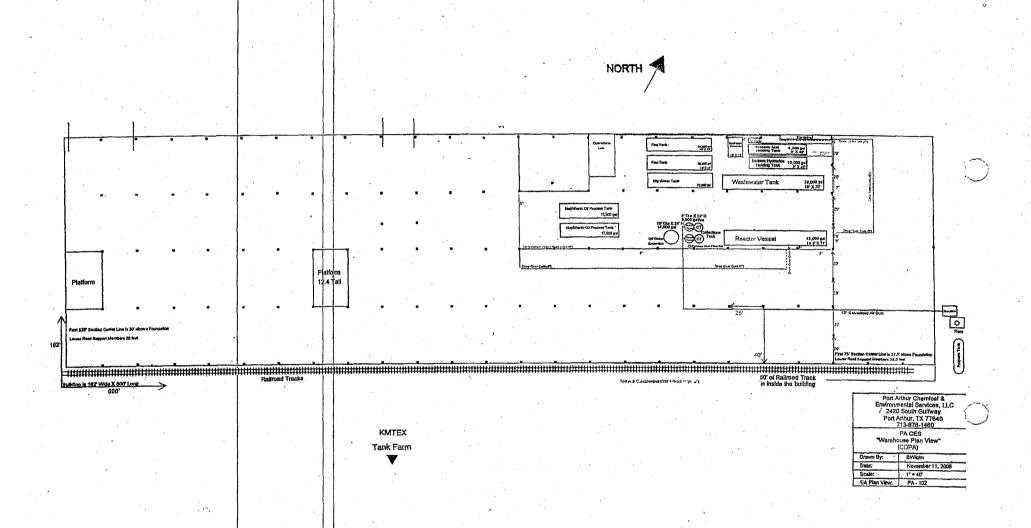
Total Time: 31 minutes Total Distance: 24.62 miles

A: State Hwy 82 & State Hwy 87, Port Arthur, TX 77640

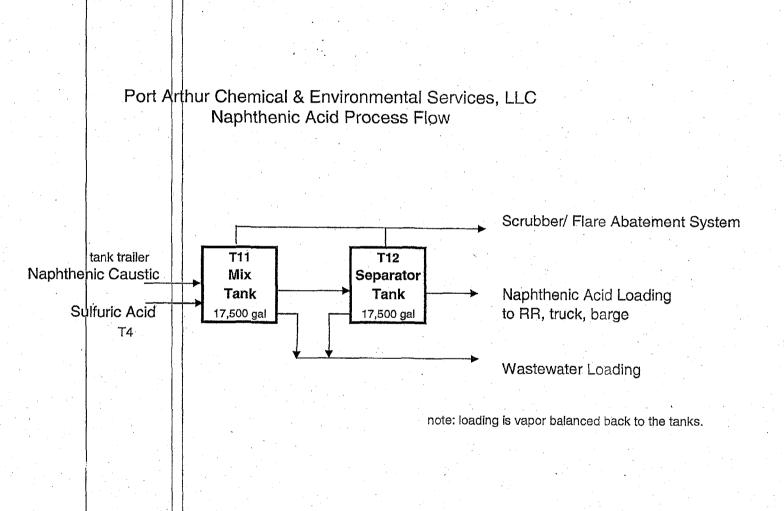
	START	1:	Start out going EAST on TX-87 toward TERMINAL RD.	0.4 mi
		2:	Tum LEFT onto TERMINAL RD.	0.0 mi
		3:	Tum SHARP RIGHT.	0.0 mi
		4:	Turn RIGHT onto TX-87.	0.4 mi
	82 82	5:	Turn SLIGHT RIGHT onto TX-82 N.	1.7 mì
	5A31) 73		Merge onto TX-73 E toward GROVES.	3.2 mi
	(287)	7:	Merge onto US-287 N/US-69 N/US-96 N toward BEAUMONT/AIRPORT.	15.8 mi
	(B)	8:	Merge onto I-10 E/US-287 N/US-69 N/US-96 N toward LAKE CHARLES/LUFKIN.	1.5 mì
	352E EX.II	9:	Take EXIT 852B toward CALDER AVE/HARRISON AVE.	0.3 mi
		10:	Stay STRAIGHT to go onto I-10 E/US-287 N/US-69 N/US- 96 N.	0.9 mi
	\bigoplus	11:	Turn RIGHT onto CALDER AVE.	0.3 mi
-	. END	12:	2830 CALDER ST.	0.0 mi
В:	2830 C	alde	er St, Beaumont, TX 77702-1809	

Total Time: 31 minutes Total Distance: 24.62 miles



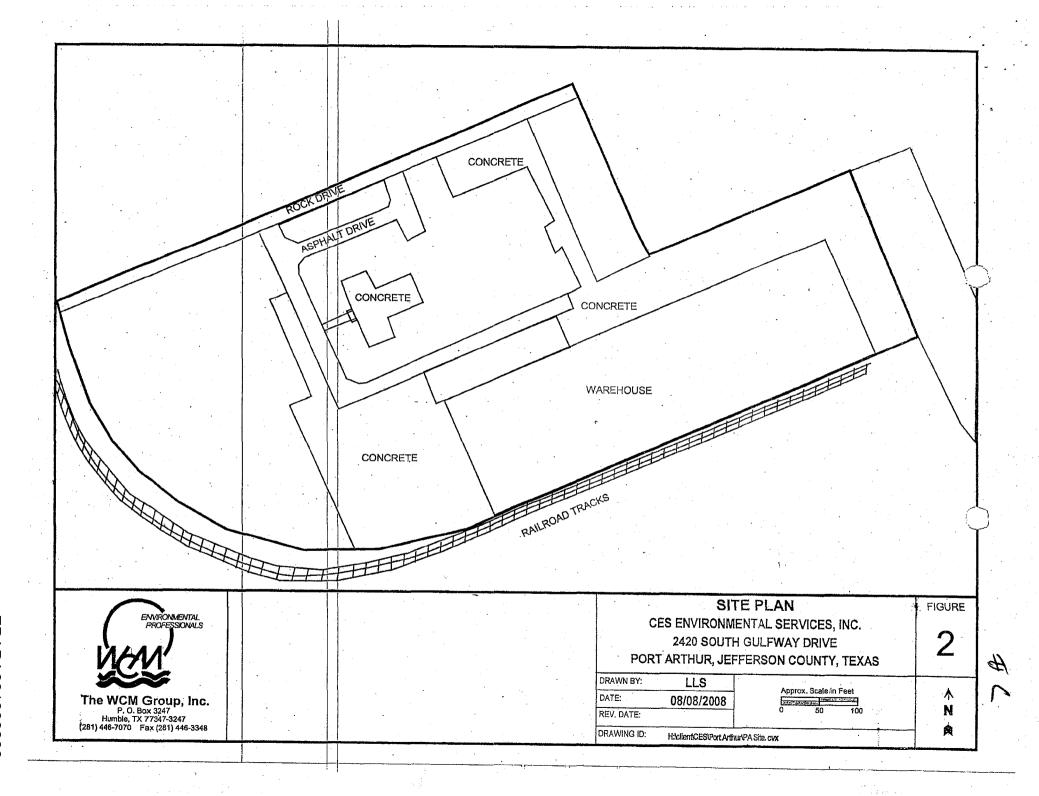


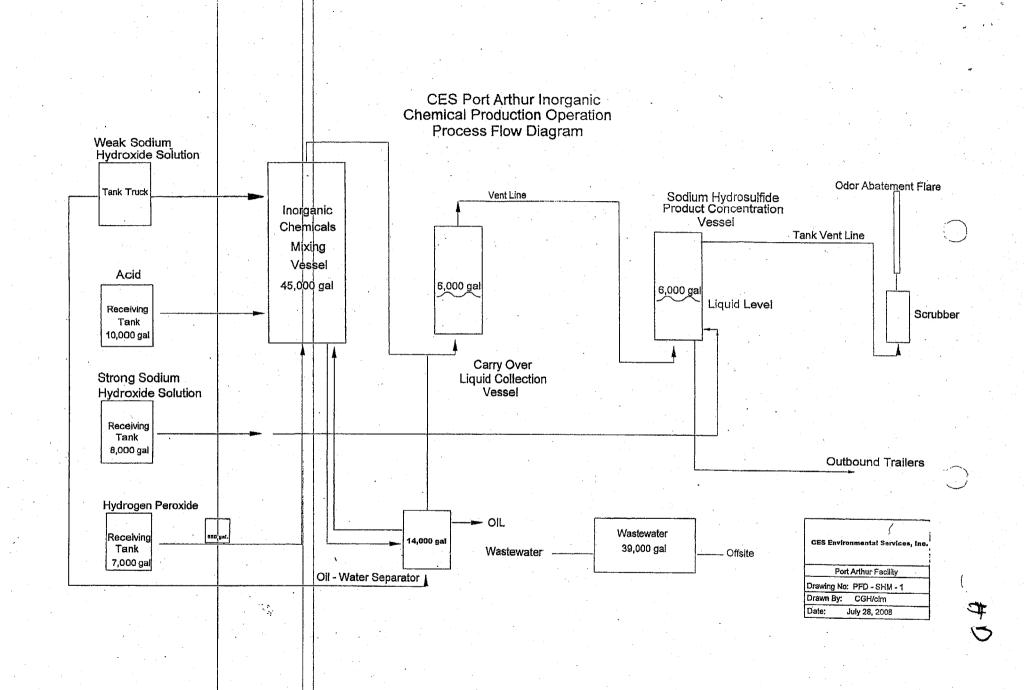




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8





PACES W/W

		Process Used /	Final	Арх.
Date	Location Removed	Generated	Destination	Gallons
2-Jun	RV-1	???	KMTEX TANK 607	5K
2-Jun	PRELOADED TRAILERS	NAP OIL	KMTEX TANK 607	5K
2-Jun	PRELOADED TRAILERS	NAP OIL	KMTEX TANK 607	5K
2-Jun	PRELOADED TRAILERS	NAP OIL	KMTEX TANK 607	5K
6/4/2009	Loaded fron Rv-1	cuastic mixture w/water	KMTEX TANK 607	5K
4-Jun	Loaded fron Rv-1	cuastic mixture w/water	KMTEX TANK 607	5K
4-Jun	Loaded fron Rv-1	cuastic mixture w/water	KMTEX TANK 607	5K
4-Jun	Loaded fron Rv-1	cuastic mixture w/water	KMTEX TANK 607	5K
5-Jun	Loaded fron Rv-1	cuastic mixture w/water	KMTEX TANK 607	5K
5-Jun	Loaded fron Rv-1	cuastic mixture w/water	KMTEX TANK 607	5K
5-Jun	Loaded fron Rv-1	cuastic mixture w/water	KMTEX TANK 607	5K
5-Jun	Loaded from frac tk	cuastic mixture w/water	KMTEX TANK 607	5K
6/8/2009	Loaded from Rv-1	cuastic mixture w/water	KMTEX TANK 607	5K
6/8/2009	Loaded fron Rv-1	cuastic mixture w/water	KMTEX TANK 607	5K
6/9/2009	Loaded fron Rv-1	cuastic mixture w/water	KMTEX TANK 607	5K
6/9/2009	Loaded fron Rv-1	cuastic mixture w/water	KMTEX TANK 607	5K

Material Safety Data Sheet

Section	<u>Title</u>	Section	<u>Title</u>
1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 -	Company and Product Identification Composition, Information on Ingredients Hazards Identification First Aid Measures Fire Fighting Measures Accidental Release Measures Handling and Storage Exposure Controls and Personal Protection	9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 -	Physical and Chemical Properties Stability and Reactivity Toxicological Information Ecological Information Disposal Considerations Transport Information Regulatory Information Other Information

1. Company and Product Identification

Product Name:

Cresylic Acid

Supplier:

Port Arthur Chemical and Environmental Services, LLC.

2420 South Gulfway Port Arthur, TX 77640

Emergency Contact:

Matt Bowman 713-826-1329 CHEMTREC 800-424-9300

2. Composition and Information on Ingredients

Chemical Ingredients (% by wt)

<u>INGREDIENTS</u>	WT.PERCENT	CAS#
Phenol	30-46	108– 95–2
o-Cresol	10-16	95-48-7
m-Cresol	10-20	108-39-4
p-Cresol	8-10	106–44–5
2,3-Xylenol	0-0.3	526-75-0
2,4-Xylenol	0-0.8	105–67–9
2,5-Xylenol	0-0.9	95–87–4
3,4-Xylenol	0-1.0	95–65–8
3,5-Xylenol	0-1.8	108-68-9
o-Ethylphenol	0-0.2	90-00-6
m-Ethylphenol	0-2.3	620-17-7
p-Ethylphenol	0-1.0	123-07-9
Tar Acids, C 3-4 Alkylphenol Fraction	1-10	143400-08-4

(See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications)

3. Hazards Identification

Emergency Overview:

Appearance: Clear to Amber Liquid

Odor: Antiseptic

<u>Precautions</u>: DANGER! CAUSES SEVERE BURNS. COMBUSTIBLE LIQUID Harmful if inhaled. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate any lakes, streams, ponds, groundwater or soil. Low to moderate aquatic toxicity. Product is expected to undergo biodegradation at the levels anticipated in the environment.

Potential Health Effects:

Eyes: Contact can cause severe irritation and burns of the eyes with possible permanent damage.

<u>Skin</u>: Acute dermal irritation/corrosion. Causes severe burns which may not be immediately painful or visible. Repeated or prolonged contact can cause redness, irritation and scaling of the skin (dermatitis). Liver and kidney injuries may occur.

Inhalation: May cause respiratory tract irritation. May cause headache and dizziness.

Ingestion: Harmful or fatal if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Rapid heartbeat, systolic hypotention, respiratory failure myocardial failure, and pulmonary edema.

Target Organs: Lungs, Kidney, Liver, Central Nervous System, Heart, Pancreas, Spleen.

<u>Additional Advice</u>: Rapid absorption and severe systemic toxicity can occur after any route of exposure.

(See Section 11 for Toxicological Information)

4. First Aid Measures

General Recommendations

Eye Contact: Danger of very serious irreversible effects. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Obtain medical attention.

Skin Contact: Take off contaminated clothing and shoes immediately. If possible, quickly blot material from skin to avoid spreading it. Rapid skin decontamination is critical. Wash off immediately with plenty of water. Wash off with polyethylene glycol and afterwards with

4. First Aid Measures (continued)

Material Safety Data Sheet

plenty of water. Apply PEG/EtOH solution liberally to affected area. Allow to remain 15 to 30 seconds, then wash with water. Continue cycle of water – PEG/EtOH solution for at least 15 minutes (PEG/EtOH solution consists of 2 parts polyethylene glycol 400 to 1 part ethanol. For external use only). Wash off with soap and water. Obtain medical attention. Wash contaminated clothing before re-use.

<u>Inhalation</u>: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. If breathing is difficult, give oxygen. Keep patient warm and at rest. Obtain medical attention.

<u>Ingestion</u>: If accidentally swallowed obtain immediate medical attention. Immediately give plenty of water (if possible charcoal slurry). Do NOT induce vomiting.

<u>Additional Advice</u>: There is no specific antidote. Treatment consists of support of respiratory and cardiovascular functions.

5. Fire Fighting Measures

Flammable Properties

Flash Point: 84 – 86 °C and 183 – 187 °F

Auto-ignition Temperature: Estimated 559 °C and 1,038 °F

Flammable Limits In Air % By Volume: Lower Explosion Limit – 1.5%(V)

Upper Explosion Limit – 8.6%(V)

<u>Fire and Explosion</u>: Fire or intense heat may cause violent rupture of packages. Material will burn in a fire.

Extinguishing Media: Water spray or fog, foam, dry chemical, CO2. Do NOT use water iet.

Fire Fighting Instructions: Wear self-contained breathing apparatus and protective suit.

Further Information: Evacuate personnel to safe areas. Stop source of fuel if possible. Keep containers and surroundings cool with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Avoid contact with runoff water. Potential hazard exists from Cresylic Acid vapors carried down wind.

6. Accidental Release Measures

Steps to be Taken in Case of Spill or Leak: Evacuate the area and eliminate all sources of ignition. Only properly trained personnel should respond to spills or leaks. Use personal protective equipment. Land Spill: Contain spilled liquid with sand, absorbent material, or concrete dikes for recovery or disposal. Do not flush into surface water or sanitary sewer system. Soak up with inert absorbent material and dispose of as hazardous waste.

Water Spill: Contain spill with booms. Remove material that settles in deeper areas of

6. Accidental Release Measures (continued)

waterway. Cresylic Acids tent to sink in fresh water and float in concentrated brine. Non-disposable equipment should be thoroughly decontaminated with soap and water. Prevent further leakage or spillage if safe to do so. Do not contaminate any lakes, streams, ponds, groundwater or soil.

Spill Precautions: Do not contaminate any lakes, streams, ponds, groundwater or soil.

Reporting Requirements: Composition and extent of any spill should be evaluated against local regulations and reported to the proper agencies, if necessary.

7. Handling and Storage

<u>Safe Handling Advice</u>: Use only in well-ventilated areas. Use only in an area equipped with a safety shower. Handle and open container with care. Don not use pressure to empty drums. Heat only in areas with appropriate exhaust ventilation. Drums should be vented during melting and unloading. Transfer lines and vents should be heated when working with freezable material to avoid pressure differences due to blockages. Vapors should be routed through an appropriate scrubber or flare to avoid release to the atmosphere. Avoid overheating as it may lead to excessive vapors, discoloration, and spillage caused by thermal expansion.

<u>Storage and Handling Materials</u>: Suitable: TANKS: Carbon Steel – Stainless Steel Unsuitable: Avoid use of Aluminum, Copper or Brass Alloys in storage or process equipment which will contact this material.

Shelf Life: Keep container tightly closed in a dry and well-ventilated place. Keep away from food, drink and animal feeding stuffs. Keep away from sources of ignition – No smoking, inert gas blanket and breathing system needed to maintain color stability.

<u>Further Information on Storage Conditions</u>: Corrosive. Hygroscopic. May exhibit super-cooling and crystallize rapidly when seeded or subjected to physical shock.

8. Exposure Controls and Personal Protection

Engineering Measures: Provide adequate ventilation. Mechanical ventilation may-be necessary if working with this product in enclosed areas and/or at elevated temperatures. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Personal Protective Equipment:

Eyes: When contact with liquid is possible, use a face shield and/or chemical splash goggles. Other wise use safety glasses with side shields or goggles.

Skin: Full protective clothing, chemical boots, and chemical gloves. Heavy PVC or butylviton gloves are recommended. Non-disposable equipment should be thoroughly decontaminated with soap and water.

8. Exposure Controls and Personal Protection (continued)

<u>Inhalation</u>: NIOSH-approved organic vapor air-purifying respirator, self-contained breathing apparatus, or air-supplied respirators where there may be potential for overexposure.

Exposure	Guidelines:	Components	Exposure Limit(s)	
LXPOSUIC	Guideillies.	Components	Exposure Emilias	

Phenol OSHA PEL 5 ppm

ACGIH TLV (8-hour) 5 ppm

o-Cresol OSHA PEL 5 ppm

ACGIH TLV (8-hour) 5 ppm

m-Cresol OSHA PEL 5 ppm

ACGIH TLV (8-hour) 5 ppm

p-Cresol OSHA PEL 5 ppm

ACGIH TLV (8-hour) 5 ppm

Naphthalene OSHA PEL 10 ppm

ACGIH TLV (8-hour) 10 ppm ACGIH STEL 15 ppm

PEL = Permissible Exposure Limits	TWA = Time Weighted Average (6 hr)
TLV = Threshold Limit Value	STEL = Short Term Exposure Limit (15 min)
EL = Excursion Limit	WEEL = Workplace Environmental Exposure Level

9. Physical and Chemical Properties

Appearance: Liquid
Color: Clear to Amber
Odor: Antiseptic
Form: Liquid

Boiling Point - Range: 185 - 230 °C and 365 - 446 °F

<u>Vapor Pressure</u>: 0.2 mm Hg @ 25 °C <u>Vapor Density</u>: Approximately 4

Solubility (water): Approximately 20 g/l @ 25 °C

Viscosity, Dynamic: 4 mPa.s @ 50 °C

Melting Point - Range: < -20 °C and < -4 °C

Density: 1.04 g/cm3 @ 15.5 °C

pH: 5.5LogKow: 2

10. Stability and Reactivity

Material Safety Data Sheet

Conditions to Avoid: Stable under normal conditions.

Hazardous Decomposition Products: Combustion products include carbon dioxide, carbon monoxide and possibly other unidentified organic compounds.

Incompatibility with Other Materials: Strong oxidizing agents.

Hazardous Polymerization: Does not occur.

11. Toxicological Information

Additional Remarks: Phenol - Absorption through skin causes massive intravascular hemolysis, rapid heartbeat, respiratory depression, kidney injury, liver damage and death. Chronic absorption via any route may result in bluish or brownish discoloration of the tendons (carbolochronosis).

Eyes: Phenol – Corrosive to eyes.

p-Ethylphenol - Severely irritating to corrosive.

Skin: Phenol – Acute Dermal LD50 (rabbit): 850 – 1,400 mg/kg

o-Cresol - Acute Dermal LD50 (rodent): 620 mg/kg

m-Cresol - Acute Dermal LD50 (rabbit): 1,100 - 2,830 mg/kg

p-Cresol - Acute Dermal LD50 (rabbit): 300 mg/kg and (rat): 750 mg/kg

2,4-Xylenol – Acute Dermal LD50 (rodent): 1,040 mg/kg

2,6-Xylenol - Corrosive. Acute Dermal LD50 (rabbit) 1,000 mg/kg

p-Ethylphenol - Mild Skin Irritation. Acute Dermal LD50 (rabbit): >5,000 mg/kg

Inhalation: Phenol – Acute LC50 (rat): 0.31 mg/l

Repeated inhalation at high concentrations may cause damage to lung, heart,

liver and kidneys, sensitivity to light and death.

o-Cresol – Repeated inhalation exposure has resulted in central nervous

system effects and blood changes.

Ingestion: Phenol - Acute Oral LD50 (rat): 530 mg/kg.

If swallowed can cause death.

o-Cresol - Acute Oral LD50 (rat): 121 - 1,350 mg/kg

Repeat high level oral exposure of rats in mice produced changes in liver and kidney weights, estrus cycles, bone marrow and female reproductive organs, as well as, irritation of the respiratory

and gastrointestinal tracts.

m-Cresol - Acute Oral LD50 (rodent): 242 - 828 mg/kg

p-Cresol - Acute Oral LD50 (rat): 207 - 1,800 mg/kg

11. Toxicological Information (continued)

Material Safety Data Sheet

Ingestion: 2,4-Xylenol – Acute Oral LD50 (rodent): 809 – 2,300 mg/kg

2,5-Xylenol – Acute Oral LD50 (rodent): 383 – 938 mg/kg 2,6-Xylenol – Acute Oral LD50 (rodent): 296 – 700 mg/kg 3,4-Xylenol – Acute Oral LD50 (rodent): 400 – 800 mg/kg 3,5-Xylenol – Acute Oral LD50 (rodent): 156 – 1,313 mg/kg

p-Ethylphenol – Acute Oral LD50 (rat): >5,000 mg/kg

<u>Carcinogenicity</u>: Phenol – This chemical is not listed for carcinogenicity by IARC, NTP or OSHA.

- o-Cresol This substance is reported to have tumor promoting activity in mice following skin application. The human health significance of this finding is uncertain. This chemical is not listed for carcinogenicity by IARC, NTP or OSHA.
- p-Cresol This substance is reported to have tumor promoting activity in mice following skin application. The human health significance of this finding is uncertain. This chemical is not listed for carcinogenicity by IARC, NTP or OSHA.

Carcinogenicity (continued):

- 2,3-Xylenol This substance is reported to have tumor promoting activity in mice following skin application. The human health significance of this finding is uncertain. This chemical is not listed for carcinogenicity by IARC, NTP or OSHA.
- 2,4-Xylenol This substance is reported to have tumor promoting activity in mice following skin application. The human health significance of this finding is uncertain. This chemical is not listed for carcinogenicity by IARC, NTP or OSHA.
- 2,5-Xylenol This substance is reported to have tumor promoting activity in mice following skin application. The human health significance of this finding is uncertain. This chemical is not listed for carcinogenicity by IARC, NTP or OSHA.
- 3,4-Xylenol This substance is reported to have tumor promoting activity in mice following skin application. The human health significance of this finding is uncertain. This chemical is not listed for carcinogenicity by IARC, NTP or OSHA.
- 3,5-Xylenol This substance is reported to have tumor promoting activity in mice following skin application. The human health significance of this finding is uncertain. This chemical is not listed for carcinogenicity by IARC, NTP or OSHA.

Material Safety Data Sheet

12. Ecological Information

Aquatic Toxicity – Low to Moderate Aquatic Toxicity:

Phenol – LC50 (fish): 96 hours 5.7 – 56 mg/l LC50 (daphnia magna): 21 – 100 mg/l

o-Cresol – LC50 (fish): 96 hours 6.2 – 23.3 mg/l LC50 (daphnia): 48 hours 5 – 21 mg/l EC50 (algae): 96 hours 40 – 100 mg/l

m-Cresol – EC50 (fish): 96 hours > 30 mg/l LC50 (fish): 96 hours 7 – 55 mg/l LC50 (daphnia): 48 hours > 99.5 mg/l EC50 (algae): 72 hours 125 mg/l

12. Ecological Information (continued)

Aquatic Toxicity – Low to Moderate Aquatic Toxicity (continued):

p-Cresol – EC50 (fish): 96 hours 5 – 16.5 mg/l LC50 (fish): 96 hours 4.4 – 55.5 mg/l

EC50 (Daphnia Pulicaria): 48 hours 22.7 mg/l LC50 (Daphnia Magna): 48 hours 1.4 mg/l

LC50 (algae): 72 hours 100 – 250 mg/l EC50 (Protozoa): 48 hours 157 mg/l

NOEC (P Promelas - Fathead Minnow): 32 d 1.35 mg/l

NOEC (Daphnia Magna): 21 d 1 mg/l NOEC (aquatic worm): 80 d 1 mg/l

2,3-Xylenol - LC50 (Daphnia): 48 hours 16 mg/l

2,4-Xylenol - LC50 (Fish): 96 hours 7.7 - 17 mg/l

2,5-Xylenol – LC50 (Trout): 96 hours 3.2 – 5.6 mg/l LC50 (Daphnia): 48 hours 10 mg/l

2.6-Xylenol – LC50 (P Promelas – Fathead Minnow): 96 hours 27 mg/l LC50 (Daphnia Magna) 48 hours 11.2 mg/l

3,4-Xylenol – LC50 (P Promelas (Fathead Minnow): 96 hours 14 mg/l

<u>Biodegradation</u>: Product is expected to undergo biodegradation at the levels anticipated in the environment.

13. Disposal Considerations

<u>Disposal Methods</u>: Dispose of only in accordance with local, state, and federal regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

Material Safety Data Sheet

Empty Containers: Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSUREIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioned, or properly disposed.

14. Transportation Information

DOT: Cresylic Acid – 6.1 (8) UN 2022, II

<u>IATA:</u> Cresylic Acid – 6.1 (8) UN 2022, II

IMDG: Cresylic Acid – 6.1 (8) UN 2022, II

15. Regulatory Information

U.S. Federal Regulations

OSHA Classification: Toxic, Corrosive, Combustible Liquid

15. Regulatory Information

TSCA Inventory List:	Components	CAS No.
	Phenol	108-95-2
	Phenol, 2-methyl	95-48-7
	Phenol, 3-methyl	108-39-4
	Phenol, 4-methyl	106-44-5
	Phenol, 2,3-dimethyl	526-75-0
	Phenol, 2,4-dimethyl	105-67-9
	Phenol 2,5-dimethyl	95-87-4
	Phenol 2,6-dimethyl	576-26-1
	Phenol 3,4-dimethyl	95-65-8
	Phenol 3,5-dimethyl	108-68-9
	Phenol, 2-ethyl	90-00-6
	Phenol, 3-ethyl	620-17-7
	Phenol, 4-ethyl	123-07-9
	Phenol, trimethyl	26998-80-1

SARA 302 Status: Contains no chemicals subject to SARA 302 reporting.

SARA 311/312 Classification: "Immediate (acute) health hazard" "Fire Hazard"

SARA 313 Chemical(s): Components CAS No. Weight %

	Phenol Phenol 2-methyl Phenol 3-methyl Phenol 4-methyl Phenol 2,4-dimethyl Naphthalene	108-95-2 95-48-7 108-39-4 106-44-5 105-67-9 91-203	30 30 30 30 10 0
<u>CERCLA</u> Hazardous Substance:	Components	CERCLA	Weight %
ilazai aozo oabotailoo:	<u>oonipononto</u>	<u>OLKOLA</u>	TVCIGITE 70

15. Regulatory Information (continued)

International Regulations:

Workplace Hazardous Materials Information System (WHMIS) Classification

Combustible Liquid Very Toxic Material Immediate and Serious Toxic Effects Very Toxic Material Causing Other Toxic Effects Corrosive Material

Australian Inventory of Chemical Substances (AICS) Listing

Listed on the AICS

Japanese Minister of International Trade and Industry (MITI) Inventory Listing

Listed on the MITI.

Canadian Domestic Substance List (DSL) Inventory Listing

Listed on the DSL.

European Inventory of Existing Commercial Chemical Substances (EINECS) Listing

Listed on the EINECS

Philippines Inventory List (PICCS)

Not listed on the PICCS

Korean Inventory List (ECL)

Not listed on the ECL

China Inventory List (CIL)

Listed on the CIL

16. Other Information

Hazard Ratings :	<u>Health</u>	<u>Flammability</u>	Reactivity
NFPA	3	2	0

THE INFORMATION PUBLISHED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN COMPILED FROM OUR EXPERIENCE AND OSHA, ANSI, NFPA, DOT, ERG AND CHRIS. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF NECESSAREY SAFETY PRECAUTIONS. WE RESERVE THE RIGHT TO REVISE THE MATERIAL SAFETY DATA SHEET PERIODICALLY AS NEW INFORMATION BECOMES AVAILABLE.

Material Safety Data Sheet

PHENOLIC CAUSTIC SOLUTION

SECTION 1 – Chemical Product and Company Identification

SECTION 2 - Composition, Information on Ingredients

SECTION 3 – Hazards Identification SECTION 4 – First Aid Measures

SECTION 5 - Fire Fighting Measures

SECTION 6 - Accidental Release Measures

SECTION 7 - Handling and Storage

SECTION 8 - Exposure Controls and Personal Protection

SECTION 9 - Physical and Chemical Properties

SECTION 10 - Stability and Reactivity

SECTION 11 - Toxicological Information

SECTION 12 - Ecological Information

SECTION 13 - Disposal Considerations

SECTION 14 - Transport Information

SECTION 15 - Regulatory Information

SECTION 16 / Other Information

SECTION 1 - CHEMICAL PRODUCT and COMPANY IDENTIFICATION

1.1 Product Name

Observiced Familie

Chemical Family

Synonyms Formula NA (mixture)

NA (mixture)

1.2 Manufacturer

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021

713-676-1460

1.3 Emergency Contact

Matt Bowman 713-826-1329 CHEMTREC 800-424-9300

Phenolic Caustic Solution

Inorganic Salt Solution

SECTION 2 - COMPOSITION and INFORMATION ON INGREDIENTS

2.1 Chemical Ingredients (% by wt)

Typical Analysis

Sodium Sulfide (Na2S)	CAS#: 1313-82-2	2 – 15%
Sodium Hydroxide (NaOH)	CAS#: 1310-73-2	0 – 15%
Sodium Hydrosulfide (NaHS)	CAS# 16721-80-5	0 - 5%
Sodium Carbonate (Na2CO3)	CAS#: 497-19-8	0 - 4%
Organic Phenolic Compond	CAS#: NA	1 – 24%
Water		remaining %

(See Section 8 for exposure guidelines)

Phenolic Caustic Solution

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SECTION 3 - HAZARDS IDENTIFICATION

NFPA:

Health - 3

Flammability – 0

Reactivity - 1

EMERGENCY OVERVIEW

Warning: Solution is highly alkaline.

May evolve small amounts of hydrogen sulfide, a highly toxic gas. EYE contact will cause marked eye irritation and possible corneal damage. SKIN contact will result in irritation and possible corrosion of the skin. INGESTION will irritate and burn the mouth, throat and the gastrointestinal tract; contact with stomach acid will cause hydrogen sulfide vapors to be released. HEATING or ACID contact will cause hydrogen sulfide gas to evolve.

3.1 POTENTIAL HEALTH EFFECTS

EYE: Contact with the eyes will cause marked eye irritation and possibly severe corneal damage.

SKIN CONTACT: Contact with the skin will cause skin irritation or a burning sensation. Prolonged contact will result in corrosion of the skin.

SKIN ABSORPTION: Absorption is unlikely to occur.

INGESTION: Ingestion will result in severe burning and corrosion of mouth, throat and the gastrointestinal tract. If the ingested material contacts stomach acid, highly toxic hydrogen sulfide gas will be evolved.

INHALATION: Product solution and vapors contain some highly toxic hydrogen sulfide gas. Exposure to this gas causes headaches, nausea, dizziness and vomiting. Continued exposure can lead to loss of consciousness and death.

CHRONIC EFFECTS – CARCINOGENICITY: Not listed as a carcinogen by NTP, IARC or OSHA.

SECTION 4 - FIRST AID MEASURES

- 4.1 **EYES:** Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to insure thorough flushing of the entire area of the eye. Obtain immediate medication.
- 4.2 **SKIN:** Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Obtain immediate medical attention.
- 4.3 **INGESTION:** DO NOT INDUCE VOMITING. If victim is conscious, immediately give 2 to 4 glasses of water. if vomiting does occur, repeat fluid administration. Obtain immediate medical attention.
- 4.4 **INHALATION:** Remove victim form contaminated atmosphere. If breathing is labored, administer oxygen. If breathinghas ceased, clear airway and start mouth to mouth resuscitation. If heart has stopped beating, external heart massage should be applied. Obtain immediate medical attention.

Phenolic Caustic Solution

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SECTION 5 - FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

FLASH POINT: Not Flammable

METHOD USED: NA

5.2 FLAMMABLE LIMITS: Hydrogen Sulfide

LFL: 4%

UFL: 44%

5.3 EXTINGUISHING MEDIA: Water spray or foam or as appropriate for combustion involved in fire.

- 5.4 FIRE and EXPLOSIVE HAZARDS: Solution is non-flammable. However if these solutions are exposed to heat or acids, hydrogen sulfide will be released and may form explosive mixtures with air (see above). Keep containers and/or storage vessels in fire area cooled with water spray. Heating may cause the release of hydrogen sulfide vapors.
- 5.5 FIRE FIGHTING EQUIPMENT: Because of the possible presence of toxic gases and the corrosive nature of the product, wear self-contained breathing apparatus, positive pressure, MSHA / NIOSH (approved or equivalent) and full protective gear.

SECTION 6 - ACCIDENTIAL RELEASE MEASURES

- 6.1 SMALL RELEASES: Isolate for 75 feet. Confine area to qualified response personnel. Wear proper Personnel Protective equipment (See Section 8). Confine release material by berming or diverting its path Absorb on sand, earth or other inert dry absorbent. Do not allow into sewer, storm drains or any waterway. Oxidize residual reactive sulfides with a weak (3-5%) hydrogen peroxide solution to stop the release of toxic hydrogen sulfide. Remove contaminated soil and dispose of in accordance with all governmental regulations.
- 6.2 LARGE RELEASES: Activate Emergency Response Plan procedures. Isolate release area for 500 feet. Confine area to qualified response personnel. Wear proper Personnel Protective Equipment (See Section 8). Shut off release, if safe to do so. Dike spill area to prevent runoff into sewers, drains (potential toxic and explosive mixtures of hydrogen sulfide in confined spaces) or surface waterways (potential aquatic toxicity). Recover as much of the solution as possible. Treat remaining material as a small release (See 6.1).

SECTION 7 - HANDLING and STORAGE

- 7.1 HANDLING: Wear proper protective equipment (See Section 8). Avoid breathing product vapors. Avoid contact with skin and eyes. Use only in a well ventilated area. Dilute product only in enclosed containers. Wash thoroughly after handling.
- 7.2 STORAGE: Store in well ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store tote and smaller containers out of direct sunlight at moderate temperatures [<80 F (27 C)]. (See Section 10.4 for materials of construction)

Phenolic Caustic Solution

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SECTION 8 - EXPOSURE CONTROLS and PERSONAL PROTECTION

- 8.1 RESPIRATORY PROTECTION: If working near open container or storage vessel opening or open tank truck dome cover, wear self-contained breathing apparatus, positive pressure, MSHA / NIOSH (approved or equivalent).
- 8.2 SKIN PROTECTION: Neoprene rubber gloves, chemical suit and boots should be worn to prevent contact with the liquid. Wash contaminated clothing prior to reuse. Contaminated leather shoes cannot be cleaned and should be discarded.
- 8.3 EYE PROTECTION: Chemical goggles and a full face shield.

8.4 EXPOSURE GUIDELINES:

OSHA

ACGIH

TWA STEL TLV STEL

Hydrogen Sulfide

20 ppm (ceiling)

10 ppm (ceiling)

8.5 ENGINEERING CONTROLS: Use adequate exhaust ventilation to prevent inhalation of product vapors. Where feasible scrub process or storage vessel vapors with caustic solution. Maintain eye wash safety shower in areas where chemical is handled.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

- 9.1 APPEARANCE: Light to dark brown to green or red liquid.
- 9.2 ODOR: Hydrocarbon (mercaptan), possibly hydrogen sulfide (rotten egg) odor.
- 9.3 BOILING POINT: Not Determined
- 9.4 VAPOR PRESSURE: Not Determined
- 9.5 VAPOR DENSITY: (Air = 1.0) 1.17
- 9.6 SOLUBILITY IN WATER: Complete
- 9.7 SPECIFIC GRAVITY: 1.03 1.3 (8.59 10.83 lbs/gal)
- 9.8 pH: 11.5 13.5
- 9.9 VOLATILE: Not Determined

SECTION 10 – STABILITY and REACTIVITY

- 10.1 STABILITY: This is a stable material.
- 10.2 HAZARDOUS POLYMERIZATION: Will not occur.
- 10.3 HAZARDOUS DECOMPOSITION PRODUCTS: Heating product will evolve H2S gas. fire conditions will cause the production of sulfur dioxide. Hydrogen sulfide (4 – 44%) may form flammable mixtures with air.
- 10.4 INCOMPATIBILITY: Acids will cause the release of highly toxic hydrogen sulfide. Sulfidic caustic solution is not compatible with copper, zinc, aluminum or their alloys (i.e. bronze, brass, galvanized metals, etc.). Corrosive to steel above 150 F (65.5 C). These materials of

Phenolic Caustic Solution

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SECTION 10 – STABILITY and REACTIVITY (Continued)

construction should not be used in handling systems or storage containers for this product. (See Section 7.2 Storage)

SECTION 11 - TOXICOLOGICAL INFORMATION

- 11.1 ORAL: Data not available.
- 11.2 DERMAL: Data not available.
- 11.3 INHALATION: INH-RAT LC 50: 444 ppm (hydrogen sulfide)
- 11.4 CHRONIC and CARCINOGENICITY: No evidence available.
- 11.5 TERATOLOGY: Data not available.
- 11.6 REPRODUCTION: Data not available.
- 11.7 MUTAGENICITY: Data not available.

SECTION 12 - ECOLOGICAL INFORMATION

None Available

SECTION 13 - DISPOSAL CONSIDERATIONS

If released to the environment for other than its intended purpose, this product contains some reactive sulfides but not a sufficient quantity to meet the definition of a D003, hazardous waste. The pH may be high enough to meet the definition of a corrosive waste, D002.

SECTION 14 - TRANSPORT INFORMATION

- 14.1 DOT SHIPPING NAME: Corrosive liquids, n.o.s.
- 14.2 DOT HAZARD CLASS: 8
- 14.3 UN/NA NUMBER: UN1760
- 14.4 PACKING GROUP: II
- 14.5 DOT PLACARD: Corrosive
- 14.6 DOT LABLE(s): Corrosive
- 14.7 IMO SHIPPING NAME: Sodium Hydroxide Solution
- 14.8 RQ (REPORTABLE QUANTITY): 1,000 lbs (454 Kg) 100% basis (Approx. 538 gals)
- 14.9 USCG BARGE CERTIFICATION: SSH (sodium sulfide, hydrosulfide solutions, H2S 15 ppm or less). SSI (sodium sulfide, hydrosulfide solutions, H2S greater than 15 ppm but less than 200 ppm).

Phenolic Caustic Solution

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SECTION 15 - REGULATORY INFORMATION

- 15.1 OSHA: This product is listed as a hazardous material under criteria of the Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- 15.2 SARA TITLE III. a. EHS (Extremely Hazardous Substance) List:
 - b. Sections 311 and 312 (Tier I, II) Categories:

Immediate (acute)

Yes

Fire

No

Sudden Release

No

Reactivity

Yes

Delayed (chronic)

No

- c. Section 313 (Toxic Release Report-Form R): N
- d. TPQ (Threshold Planning Quantity): No
- 15.3 CERCLA and SUPERFUND: RQ (Reportable Quantity) 1,000 lbs
- 15.4 TSCA (Toxic Substance Control Act) Inventory List: Yes
- 15.5 RCRA (Resource Conservation and Recovery Act) Status: Yes
- 15.6 WHMIS (Canada) Hazard Classification: E, D1
- 15.7 DOT HAZARDOUS MATERIAL: (See Section 14) Yes
- 15.8 CAA HAZARDOUS AIR POLLUTANT (HAP): No

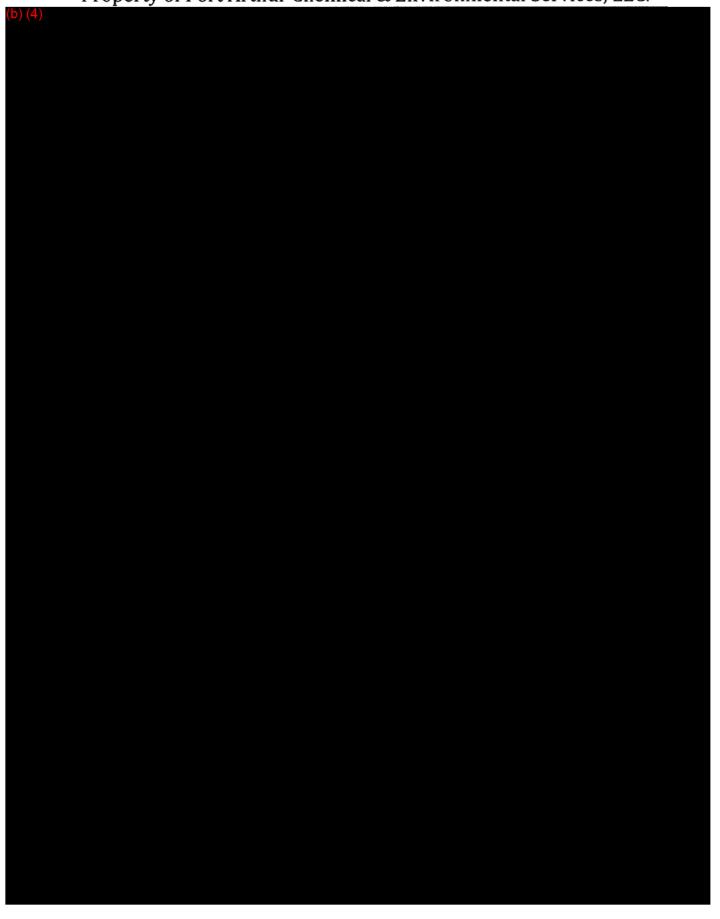
SECTION 16 – OTHER INFORMATION

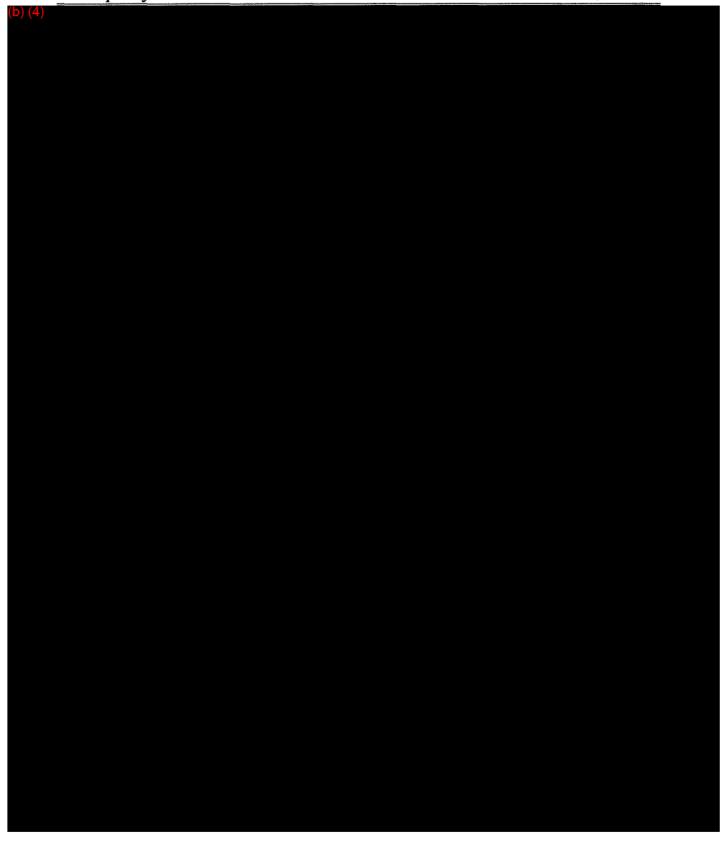
REVISIONS: The entire MSDS was reformatted to comply to ANSI Standard Z400.1-1993.

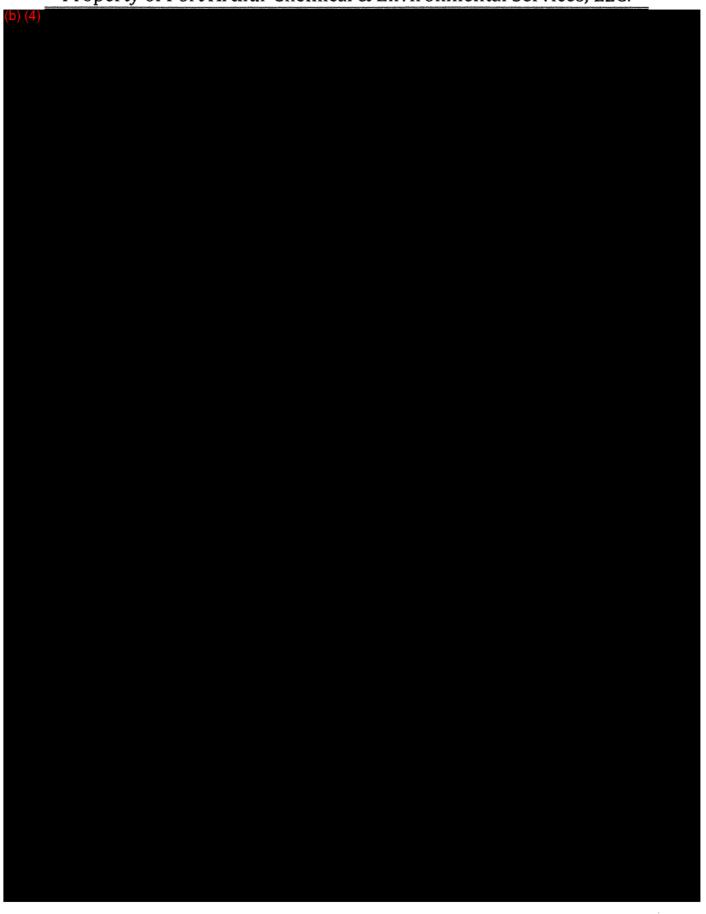
THE INFORMATION PUBLISHED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN COMPILED FROM OUR EXPERIENCE AND OSHA, ANSI, NFPA, DOT, ERG AND CHRIS. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF NECESSAREY SAFETY PRECAUTIONS. WE RESERVE THE RIGHT TO REVISE THE MATERIAL SAFETY DATA SHEET PERIODICALLY AS NEW INFORMATION BECOMES AVAILABLE.

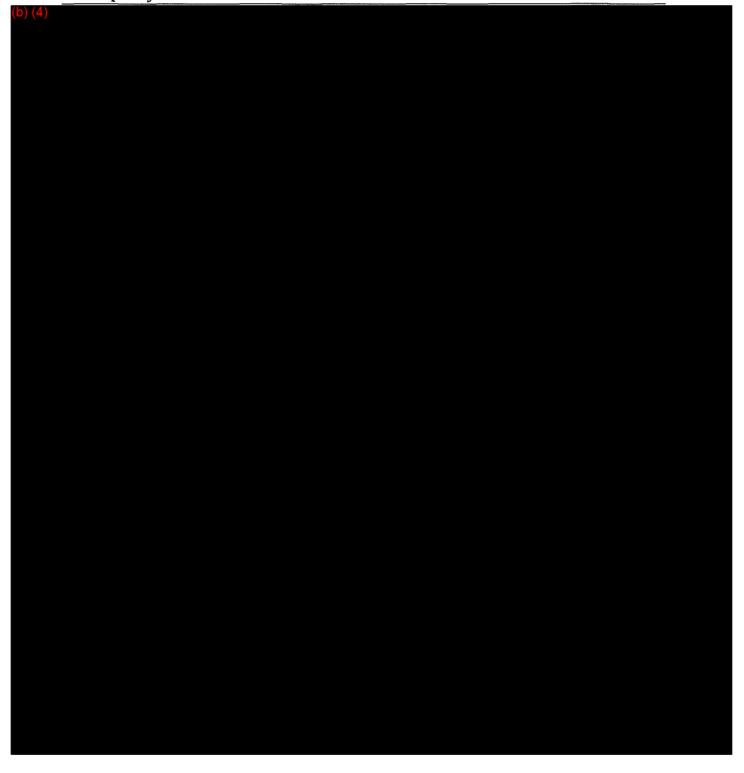
Phenolic Caustic Solution

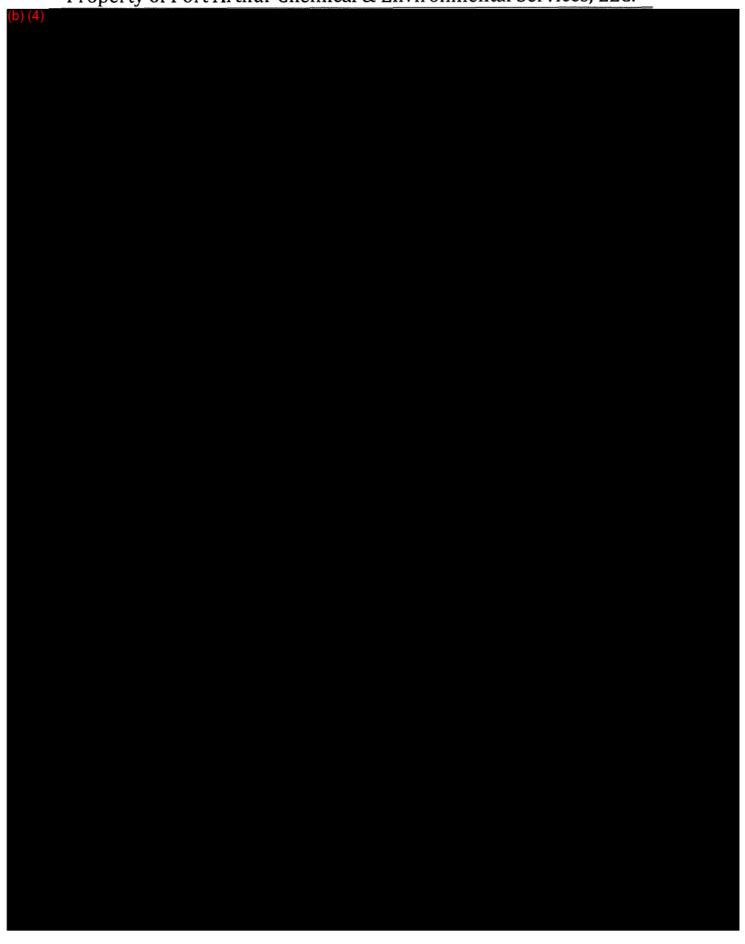
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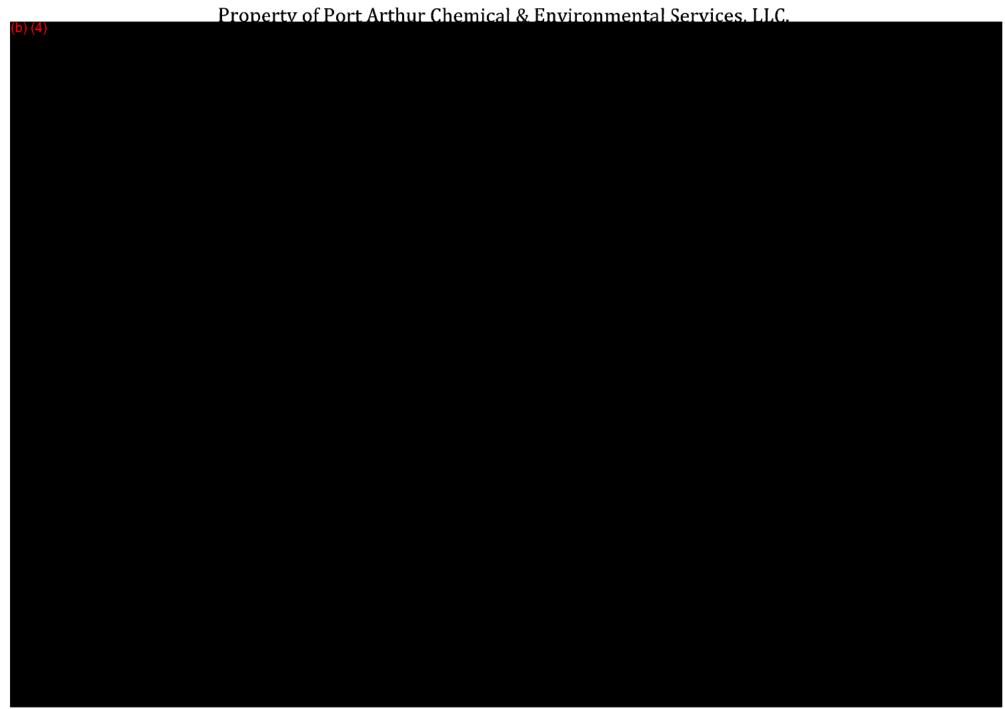








PROPRIETARY and CONFIDENTIAL



MANDATORY: MUST FILL OUT EVERY DATA FIELD



INCOMING TANK TRUCK LOADS TESTING DATA LOG SHEET

DATE	TIME	Initials	Trailer Number	Customer Job Number	TESTING TYPE & RESULTS	<u>Destination</u>
DATE	TIME 8.70	Initials	Trailer Number	Lintex JOB 19720 Profile #: 225	pH= S. gravity= Lb/gallon= % solid= %Sulfide=+32% Mercaptan= % NaOH=L4. 841% Carbonate= 389 % Spent=	RV2 ~4060
DATE	TIME	Initials	Trailer Number	JOB #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide=)_% Mercaptan= % NaOH=	·4850 ·4955
* LO	TIME PLSO	Initials	Trailer Number	JOB #: 79722 Profile #: 270	pH= S. gravity= Lb/gallon= % solid= %Sulfide= 0/2% Mercaptan= % NaOH= H. J. & Carbonate= , G. q. % Spent=	14380 RV2
DATE	TIME	Initials	Trailer Number	JOB #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide= % Mercaptan= % NaOH= % Carbonate= % Spent=	
DATE	12:2	Initials	Trailer Number	Lintex JOB Sd 1 #: 19723 Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide= , 2 % Mercaptan= % NaOH=	KV2
A CL	TIME 310			JOB #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide= , \(\frac{1}{2}\)% Mercaptan= % NaOH= \(\frac{3}{5} \) \(\frac{7}{6}\) Carbonate= \(\frac{1}{2} \)	.4137
DATE	710	Initials	Trailer Number	KM + ex JOB 19124 #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide=, 2 3% Mercaptan= % NaOH= 4 5 9 % Carbonate= (0) % Spent=	04137 RV2

MANDATORY: MUST FILL OUT EVERY DATA FIELD



INCOMING TANK TRUCK LOADS TESTING DATA LOG SHEET

DATE	TIME	Initials	Trailer Number	Customer Job Number	TESTING TYPE & RESULTS	<u>Destination</u>
DATE	TIME	Initials Sm	Trailer Number	JOB 50 1 #: 79591 Profile #: 2375	pH= S. gravity= Lb/gallon= % solid= %Sulfide= Mercaptan= % NaOH= 4, 47,6 Carbonate= 1, 15 % Spent=	202
, gate	TIME	Initials	Trailer Number	JOB 99 99 1 Profile #: 237	pH= S. gravity= Lb/gallon= % solid= %Sulfide=シング Mercaptan= い NaOH= L がらいるCarbonate= の・何) % Spent=	RV2
DATE	TIME	Initials	Trailer Number	JOB 9594 #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide=3. N% Mercaptan= % NaOH= 4. 6 % Carbonate= 1- 3 % Spent=	RJ2
DATE	TIME	Initials	Trailer Number	JOB9 598 #:9 598 Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide=017% Mercaptan= % NaOH= 5.101 % Carbonate= 0-99 % Spent=	Rv2
DATE	7.00	Initials	Trailer Number	V95n JOB #: Profile #:	pH=\2 \ S. gravity= Lb/gallon= % solid= %Sulfide= \$26% Mercaptan= % NaOH=\3 647% Carbonate= \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1906
DATE	TIME	Initials		JOB 7 9 7 () #:	pH= 26 S. gravity= Lb/gallon= % solid= %Sulfide= 66% Mercaptan= % NaOH= 254% Carbonate= . \$5 % Spent=	Caustic Tank
DATE 1/Le	TIME	Initials	Trailer Number		pH=9,6 S. gravity= Lb/gallon= % solid= %Sulfide= 69% Mercaptan= % NaOH= 15% Carbonate= 66 % Spent=	

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MANDATORY: MUST FILL OUT EVERY DATA FIELD



DATE	TIME	Initials	Trailer Number	Customer Job Number	TESTING TYPE & RESULTS	<u>Destination</u>
l/ l/	TIME Y:30	Initials	Trailer Number	Kmter JOB 606-1 #: Profile #:	% Spent=	.4854
) () ()	TIME 4:30	Initials	Trailer Number	Kmtu 606-2 JOB #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide= 67% Mercaptan= % NaOH= 3.53% Carbonate= . \$5 % Spent=	•4346
PATE	TIME Lig	Initials	Trailer Number	JOB Robon 1 #: Profile #:	pH= ろ S. gravity= Lb/gallon= % solid= %Sulfide=&リ% Mercaptan= % NaOH= つ % Carbonate= カール % Spent=	.4162
I M	TIME L'MS	Initials	Trailer Number	Lmtex JOB 66-2 #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide=S % Mercaptan= % NaOH= \(\), \(\) \(\) \(\) Carbonate= % Spent=	-4151
DATE 1/5		Initials		#: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide= ん(% Mercaptan= % NaOH=) りんぱ Carbonate= . タケ % Spent= (7) タ	.4336
DATE	TIME	Initials		#: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide= 1/2 % Mercaptan= % NaOH= 1/2 % Carbonate= 1/2 % % Spent= 5/2 %	
DATE	TIME	Initials		NASH JOB Starting #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide= 2% % Mercaptan= % NaOH=/5、イフ % Carbonates、イン % Spent=	: 4237

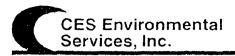


DATE	TIME	Initials	Trailer Number	Customer Job Number	TESTING TYPE & RESULTS	<u>Destination</u>
DATE	Fime G-40	Initials	Trailer Number	JOB 79524 #:	pH= 12-6 S. gravity= Lb/gallon= % solid= %Sulfide= O-1 % Mercaptan=0.39 % NaOH=> 094 % Carbonate= 1.14 % Spent=	RV2
DATE	TIME	Initials	Trailer Number	JOB 79526 #:	pH= 2 7 S. gravity= Lb/gallon= % solid= %Sulfide= 15 % Mercaptan= % NaOH=5.25 % Carbonate= 1.16 % Spent=	
PATE ()	TIME T. D	Initials	Trailer Number	JOB 79624 #: 79624 Profile #:23 X	pH= S. gravity= Lb/gallon= % solid= %Sulfide= \ \	RV2 0.4904
1) Y	TIME	Initials	Trailer Number	JOB #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide=\(\(\) \(\) Mercaptan= % NaOH= \(\) \(\) \(\) Carbonate= 0 \(\) \(\) Spent=	0.43+8 0.4134
DATTE	9:30	Initials	Trailer Number	JOB 1955 7 #: 1955 7 Profile #: 1375	pH= S. gravity= Lb/gallon= % solid= %Sulfide=071% Mercaptan= % NaOH=6448 % Carbonate= 5.44 % Spent=	NASH . 4325
DATE	TIME	Initials		10B 9547 #: 19547 Profile #: 2375	pH= S. gravity= Lb/gallon= % solid= %Sulfide=, 3-2% Mercaptan= % NaOH=!5: L/\$' % Carbonate= / 2) % Spent=	RV2
(PATE	TIME	Initials	Trailer Number	VMLEY JOB 29548 #: Profile #: 235	pH= S. gravity= Lb/gallon= % solid= %Sulfide= 3 % Mercaptan= % NaOH= 5 6 % Carbonate= 17 % Spent=	RVZ

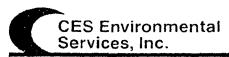


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			,	INCOMING 1	ANK TRUCK LOADS TESTING DATA LOG	SHEE!
DATE	TIME	Initials	Trailer Number	Customer Job Number	TESTING TYPE & RESULTS	<u>Destination</u>
DATE // 2	TIME	Initials	Trailer Number	LV (pH=// S. gravity= Lb/gallon= % solid= %Sulfide=427% Mercaptan= % NaOH= 3.34/ % Carbonate= % Spent=	J.Sml = 581 gallons of Airce @ 23,250gallor
12				#: Profile #:	<u>'</u>	
1/23	TIME	Initials	Trailer Number	JOB WASh #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide= 0-1(% Mercaptan= % NaOH= 13.7 3% Carbonate= % Spent=	
M(3	TIME	Initials	Trailer Number	JOB 7 9 5 11 #: Profile #: 2311	pH= S. gravity= Lb/gallon= % solid= %Sulfide=0.08% Mercaptan= % NaOH=0 3% Carbonate= 1 · 3 o % Spent=	RYZ
L/	TIME 12.B	Initials	Trailer Number L+		pH= S. gravity= \ \ \ \ Lb/gallon= \ \ \ \ \ \ Solid= %Sulfide= % Mercaptan= % NaOH= \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Derrode
1275	12:40	Initials	Trailer Number	Under JOB 79512 #: Profile #:2375	pH=/S. gravity= Lb/gallon= %solid= %Sulfide= _0/_7% Mercaptan= %NaOH=7% Carbonate= / %Spent=	Rve
DATE // 3	J. Yo	Initials	Trailer Number	A .	pH= S. gravity= Lb/gallon= % solid= %Sulfide= 66% Mercaptan= % NaOH=13.90 % Carbonate= 80 % Spent=	.4364
PATE (2)	TIME BLU	Initials Sm	Trailer Number	100	pH= 13.5 S. gravity= 2.68 Lb/gallon= % solid= %Sulfide= 2.68 Mercaptan= % NaOH= 4.44 % Carbonate= 1.3 % Spent=	LV2

DATE	TIME	Initials	Trailer Number	Customer Job Number	TESTING TYPE & RESULTS	<u>Destination</u>
1-12	TIME	Initials	Trailer Number	Profile #: C2 13	pH= S. gravity= Lb/gallon= % solid= %Sulfide=ひが Mercaptan= % NaOH= いくり % Carbonate= 1. ろう % Spent=	RVI
DATE	TIME 4.3	Initials	Trailer Number	JOB #:	pH= 13 % S. gravity= Lb/gallon= % solid= %Sulfide= 0 7	
DATE	TIME	Initials	Trailer Number	NASH, JOB #: Profile #:	pH=13.4 S. gravity= Lb/gallon= % solid= %Sulfide= 0.83% Mercaptan= % NaOH= % Carbonate= 0.63 % Spent= 15.98	
J-12	5.30	Initials	Trailer Number	JOB 79435 #: 79435	pH= S. gravity= Lb/gallon= % solid= %Sulfide= ^{J-oq} / ₋ % Mercaptan=0 S % NaOH= 4 · S % Spent=	RV
1-12	5.40	Initials	Trailer Number	JOB 79436 #: 737)	pH= S. gravity= Lb/gallon= % solid= %Sulfide= Mercaptan= υ. Σ γ % NaOH=	RV2
NAS	TIME	Initials	Trailer Number	NAS 112 JOB #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide=1. 45% Mercaptan= % NaOH=13.13 % Carbonate= 3. U % Spent=	0.370
I // 3	TIME	Initials	Trailer Number	Nash JOB #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide= 1, 69% Mercaptan= % NaOH= 1 4. 06.3% Carbonate= 3.6 / % Spent= 53	·4137 ·3944



DATE	TIME	Initials	Trailer Number	Customer Job Number	TESTING TYPE & RESULTS	<u>Destination</u>
L-9	TIME	Initials	Trailer Number	TARGA JOB 79203 Profile #:	pH= S. gravity= f. 0S Lb/gallon= % solid= %Sulfide= % Mercaptan= % NaOH= 5.72 % Carbonate= % Spent=	Berrider
DATE	10.30	Initials	Trailer Number	JOB 7 9293 #: 7 9293 Profile #: 2375	% NaOH= 5.86 % Carbonate= からな	
DATE 1_9	TIME 10.47	GE	Trailer Number	NASH JOB 3 #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide= 7-826 Mercaptan= % NaOH= 13-25 % Carbonate= 2-7/ % Spent= /0 0	0.4001
1 -A	TIME	Initials	Trailer Number	KM100	pH= S. gravity= Lb/gallon= % solid= %Sulfide=5-5% Mercaptan= % NaOH= 10-34% Carbonate= % Spent=	
DATE		Initials	Trailer Number	New BATCH JOB #: Profile #:	pH=\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0.4225 53.6 53.6
DATE	1 30	Initials	Trailer Number	JOB 79434 #: Profile #: 232)	pH= S. gravity= 0.05% Lb/gallon= % solid=	RV2
I-2	2-30	Initials	Trailer Number	JOB #: Profile #:	pH= \3 \S \2S. gravity= Lb/gallon= % solid= %Sulfide=0 \17 % Mercaptan= % NaOH= 3 \18 % Carbonate= 0 \3 \\$ % Spent=	



INCOMING TANK TRUCK LOADS TESTING DATA	LOG SHEET
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DATE	TIME	Initials	Trailer Number	Customer Job Number	TESTING TYPE & RESULTS	<u>Destination</u>
1/8	TIME	Initials	Trailer Number	JOB-79 235 #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide= 0.1% Mercaptan=0.2 % NaOH= \$.235% Carbonate= o.6 % Spent=	
DATE	TIME G.S.	Initials	Trailer Number	Job farti) #: Profile #:	pH= S. gravity=	.3785
DATE	TIME	Initials	Trailer Number	#: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide= U 5% Mercaptan= % NaOH= 13 72% Carbonate= 3 (• 4496
DATE	TIME 1.3S	Initials	Trailer Number	Valero JOB 78829 #:	pH= /3 / S. gravity= (, () A. Lb/gallon= % solid= , %Sulfide= , ()	RV2
10 ATE	8.2	Initials		Moderation JOB 2012 #: Profile #: 23 15	pH= (みちs. gravity= Lb/gallon= % solid= %Sulfide= ルイル Mercaptan= % NaOH= 13-47 % Carbonate= 3.0 2 % Spent=	·3960 RV2
	TIME 8:US	Initials	Trailer Number	Nash	pH= S. gravity= Lb/gallon= % solid= %Sulfide=506% Mercaptan= % NaOH= 2.846% Carbonate= 36 % Spent=	• 3040
DATE	TIME	Initials			pH= S. gravity= Lb/gallon= % solid= %Sulfide= 4.12% Mercaptan= % NaOH= \$5.38 % Carbonate= 1.62 % Spent= 51.8	

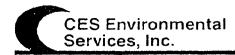


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		·		INCOMING 17	ANK TRUCK LOADS TESTING DATA LOG	SHEET
DATE	TIME	Initials	Trailer Number	Customer Job Number	TESTING TYPE & RESULTS	<u>Destination</u>
I-8	TIME	GG	Trailer Number	TARGA JOB 79202 #:	pH= S. gravity=\.69 Lb/gallon= % solid= %Sutfide= % Mercaptan= % NaOH=\O.69 % Carbonate= % Spent=	Beruder 79225
1-8	12.44	Initials	Trailer Number	XMJ55 JOB 501 #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide=O-\6 % Mercaptan= % NaOH=O-74 % Carbonate= O-\6 \ % Spent=	RUZ
DATE	TIME	Initials	Trailer Number	JOB #:Profile #:	pH= S. gravity=0 Lb/gallon= % solid= %Sulfide=0.79% Mercaptan= 2.373 % NaOH= % Carbonate= 0.53 % Spent= (3.51)	0.4291
DATE	1.06	Initials	Trailer Number	JOB 7 (8 3) #:	pH= 13. S. gravity= 1.0 2 Lb/gallon= % solid= %Sulfide= 1/1/1.5 Mercaptan= % NaOH= 1/9 % Carbonate= 0 . 6 % Spent=	RVZ
1-6	1.52	Initials	Trailer Number	KMT EX JOB 79 243 #: Profile #:	pH= S. gravity= 2.3 Lb/gallon= % solid= %Sulfide= 2.3 % Mercaptan= % NaOH= \$:59 % Carbonate= O . 45 % Spent=	•.
DATE	TIME	initials	Trailer Number	VAL/501/600 JOB #: Profile #:	% Spent=	0.4118
DATE 1	J.3	Initials	Trailer Number	Valero JOB 78 836 #:	pH=\\\ S. gravity=\\\ O\\ Lb/gallon=\\ % solid=\\%Sulfide=\\\\\\ Mercaptan=\\\ % NaOH=\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4081 RV2



				INCOMING T	ANK TRUCK LOADS TESTING DATA LOG	SHEET
DATE	TIME	Initials	Trailer Number	Customer Job Number	TESTING TYPE & RESULTS	<u>Destination</u>
DATE	TIME Y: Y	Initials	Trailer Number	Vas L Job #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide= % Mercaptan= % NaOH= U,	
DATE	TIME SO	Initials	Trailer Number	JOB #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide= 0 % Mercaptan= % NaOH= % Carbonate= % Spent=	
1 / S	TIME T, Q)	Initials	Trailer Number	JOB #: Profile #:	pH=/2,7[S. gravity= Lb/gallon= % solid= %Sulfide= M Mercaptan= % NaOH= 6,9 % Carbonate= ,8 4 % Spent= 95.5	-4287
DATE 1	TIME	Initials	Trailer Number	JOB 18826 #: Profile #:3117	pH= (3, 2 S. gravity= (, 0) Lb/gallon= % solid= %Sulfide= () ()% Mercaptan= % NaOH= 2 (0) % Carbonate= ()% % Spent=	In RVI
DATE		Initials	Trailer Number	Valur 0 JOB 7 8 8 7 #:	pH= 12 76. gravity= 10 2 Lb/gallon= % solid= %Sulfide= 0.12% Mercaptan= % NaOH= 1.71 % Carbonate= 0.3 8 % Spent=	InRVI
DATE \$\langle \langle \langle	TIME	(, (,	Trailer Number	Valens 501 JOB 606 #:	pH=13-36 S. gravity= Lb/gallon= 1.732 % solid= %Sulfide=0.54% Mercaptan= 1.732 % NaOH=4f-109 % Carbonate= 0.93 % Spent= 56	0.3457
I/8	A//S	Initials	Trailer Number	Targa JOB 1920 1 #: 1920 1 Profile #: 230 1	pH= S. gravity= [-] O Lb/gallon= % solid= %Sulfide= % Mercaptan= % NaOH= [1-5] % Carbonate= % Spent=	Sent to Denida 79223





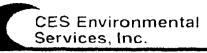
DATE	TIME	Initials	Trailer Number	Customer Job Number	TESTING TYPE & RESULTS	<u>Destination</u>
DATE	TIME 10:YS	Sm	Trailer Number	JOB 885 #: 885 Profile #: 3117	pH= { 3, } S. gravity=}	.4350
DATE	TIME	Initials	Trailer Number	RUI	pH= 13.48 S. gravity= Lb/gallon= %Sulfide=0.16% Mercaptan=0.29	word 1.8 mf of ecid
1/07	1:10	66		JOB #: Profile #:	% NaOH= 2,28 % Carbonate= 0.37 % Spent=	100ml 1.8ml of ecid 64.2 65.
DATE	TIME \(\frac{1}{2}\)	Initials	Trailer Number	Job 78828 #: 78828	pH=13.\ S. gravity=1.00 Lb/gallon= % solid= %Sulfide= % Mercaptan= % NaOH=2.00 % Carbonate=.65 % Spent=	.4140
DATE CON	3:(S	Initials S	Trailer Number	JOB (Contex) #: Profile #:	pH=(3, \dagger S. gravity= , Lb/gallon= % solid= %Sulfide=(7) & Mercaptan= %NaOH=/(, 373% Carbonate= , 373% Spent=	.4265
DATE		Initials	Trailer Number	JOB #:	pH= 3 S. gravity= 0 206Lb/gallon= % solid=	.4126
DATE	TIME	Initials	Trailer Number	#: Profile #:	pH=12. 8 S. gravity= Lb/gallon= % solid=	
DATE L	TIME	Initials	Trailer Number	JOB #: Profile #:	pH=/24US gravity= Lb/gallon= % solid=	



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(*				INCOMING TA	ANK TRUCK LOADS TESTING DATA LOG	SHEET
DATE	TIME	Initials	Trailer Number	Customer Job Number	TESTING TYPE & RESULTS	<u>Destination</u>
DATE	TIME 9:30	Initials	Trailer Number	JOB 78821 #: Profile #: 3117	pH= 3.9 S. gravity= 1.0.7 Lb/gallon= % solid= %Sulfide= 3.15% Mercaptan= % NaOH= 3.13 % Carbonate= 3.14 % Spent=	Unloaded 1Ato RV-2 14003
DATE	TIME	-//(Trailer Number	JOB #:	pH=13-13S. gravity= \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0-4512
PATE	III. o	C	Trailer Number	NASH JOB 1-3 #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide= \(\frac{1}{2} \) Mercaptan= % NaOH= \(\frac{1}{2} \) % Carbonate= \(\frac{1}{2} \) \(\frac{3}{2} \) % Spent=	0.3147
DATE	TIME	Initials	Trailer Number	JOBSEPTEL #: Profile #:	pH=	
DATE	3.40	Initials	Trailer Number	JOB 78824 #: 78824	pH= 13-(¶S. gravity= 1.02 Lb/gallon= % solid= 0 %Sulfide= 0-14% Mercaptan= % NaOH= 1.78/ % Carbonate= 0-28 % Spent=	0.4850
DATE	J. Yo	Initials		JOB 18822 #: 18817	pH=137 S. gravity=1-02 Lb/gallon= % solid= 0 %Sulfide=012 4% Mercaptan= % NaOH=1.74 % Carbonate= 0.3	0.4390
DATE	TIME 630	Initials	Trailer Number	JOB #: Profile #:	pH= /3 _2S. gravity= Lb/gallon= % solid=	.4359

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MANDATORY: MUST FILL OUT EVERY DATA FIELD



DATE	TIME	Initials	Trailer Number	Customer Job Number	TESTING TYPE & RESULTS	Destination
DATE 1/5	TIME 103-	Sm	Trailer Number	JOB 109-03 #: Profile #:	pH+1) S. gravity= DLb/gallon= % solid= %Sulfide= %Mercaptan= % NaOH=3 4 6 1% Carbonate= 7 6 2 % Spent=	s 4 2 5 3
DATE	TIME	Initials	Trailer Number	JOB 78817 Profile #: 31/7	pH= S. gravity= Lb/gallon= % solid= %Sulfide= .LD% Mercaptan= % NaOH= \$ 1 % Carbonate=	. 4253
DATE	TIME 1230	Initials	Trailer Number	JOB 78819 #: 3117	pH= S. gravity= Lb/gallon= % solid= %Sulfide= , 13 % Mercaptan= % NaOH: / (2) % Carbonate= • SOO % Spent=	.U565
DATE \-S	2.24	Initials	Trailer Number	NASH JOB D1-01 #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide=9.9c% Mercaptan= % NaOH= 13.91 % Carbonate= . 731 % Spent=	0.3172
DATE 1-5	615	Initials	~60	JOB. 78818 #:- Profile #: 311]	pH= S. gravity=j.o. Lb/gallon= % solid= %Sulfide=5.12% Mercaptan= 0.64 % NaOH= 1.869 % Carbonate= 0.52 % Spent=	0.3992
DATE	TIME	Initials		Profile #: 3 \\]	pH= S. gravity= Lb/gallon= % solid= %Sulfide= O (\$.) Mercaptan= % NaOH= ,	0 4153
DATE	TIME	SM		Vash	pH= S. gravity= Lb/gallon= % solid= %Sulfide=5.)% Mercaptan= % NaOH= () % Carbonate= () () % % Spent= () 00%	-4005



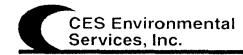
DATE	TIME	Initials	Trailer Number	Customer Job Number	TESTING TYPE & RESULTS	Destination
DATE	10:30		Trailer Number	JOB 78815 #: 78817	pH= 1,30 S. gravity= 1,00 Lb/gallon= % solid= %Sulfide=',1/3% Mercaptan=1,30/, % NaOH=1,17/, % Carbonate=3, 3/, % Spent=	per mike @ 10:40 om
JOAJE JOG	TIME	SM	Trailer Number	JOB 78814 #: Profile #:3117	pH= [2.68. gravity=] 0 Lb/gallon= % solid= %Sulfide=.155% Mercaptan= % NaOH= 1.755% Carbonate= 0. 41 % Spent=	Dropping
DATE /DI	ll'S5	Initials Sm	Trailer Number	JOB 18 686 #: 18 686	pH=/	77.
DATE	1 'So	Sm	Trailer Number	JOB #: Profile #:	pH=39 S gravity= Lb/gallon= % solid= %Sulfide=177% Mercaptan= % NaOH=106 % Carbonate= % Spent=	
DATE DATE	3,3	Initials	Trailer Number	JOB 8813 #:	pH= \(\) \(Unloading in RV2
DATE	Sido	Initials		#: Profile #:	pH= 1 US gravity= , Lb/gallon= % Solid= % Sulfide= みん。Mercaptan= 、ソンフ % NaOH= 1.8() 3 % Carbonate= の・4 2 % Spent=	unlawing into RVA
DATE 1/5/0	TIME	Initials		Was L	pH= S. gravity= Lb/gallon= % solid= %Sulfide= % Mercaptan= % NaOH= % Carbonate= % Spent=	÷

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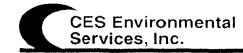
					75	722 200 ,3512		S. Rale	·		
Comments		Exist Carbinal	Speeth grandy (.02	Carbs 12 6	15 carboneta (07)	Speerfer grants 1.00	. 44 consorate	Spec Granty 1,00 29 2005	Carbonate	(45797	Ph/3.05
% Sulfides	NA		.153	Chi-	,136	.145	2.86	hao.	Nan	Samuel Control	.182
% NaOH	4. 46	(8.2)	1.18%	1.36	&L)	1.836	13.75	(j.f.)	. Folke	13.553	%>1.C
Sampled By			Dennis	Dennis	Keven	Keun	Mile	Dunn	Lowbek	Tony	Mule
Time Sampled			(9:80	Cause 19,00	107.55	11:Ovan	12:00pm	4.30	15:10	(2/3)	4.20
Sample Material # Type			Carretic		Causti.	Vabro Caustin	Nash	Causty 4:30	Sperse	S. M.	18787
A CONTRACTOR	Shares s Amps	NASH	Sales Sales	Sales Nales	Valery 78653		Nash		Inter each	Theres	Valero
Date			2	40 Bg	08/2	D/30	USS	15/32	0/2	693	180



DATE	TIME	Initials	Trailer Number	Customer Job Number	TESTING TYPE & RESULTS	Destination
12-H	3-50	Initials	Trailer Number	RJ2 Follows BATCH Profile #: 12-3	pH= S. gravity= Lb/gallon= % solid= %Sulfide=\.\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0.384
12/Ja	9:05 Am	Sm	Trailer Number	Total P #:	pH=(\(\), \(\) S. gravity= Lb/gallon= % solid= %Sulfide= % Mercaptan= % NaOH= % Carbonate= % Spent=	preak about 2% ou
DATE	7:35 An	Initials	Trailer Number	Bardge JOB #: Profile #:	pH=]3.7 S. gravity= 1/2 Lb/gallon= % solid= %Sulfide= \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	
12/14	qui	CC		BALGE JOB 2 Profile #:	pH=[3.3 S. gravity=1.4% Lb/gallon= % solid= %Sulfide=0.46% Mercaptan=0.73 % NaOH=6:10 % Carbonate=1.04 % Spent= 29.5	Na FROM Naz OG = Naz OOz =
12/24	10-32	•		JOB 3 #: Profile #:	pH=1373 S. gravity= (/ Lb/gallon= % solid= %Sulfide= 646 Mercaptan= 07/ % NaOH= 3 % Carbonate= 076 % Spent=	
12 ₁ 24	Wed .	Initials		JOB 78418 #:	pH= 3.8 S. gravity= Lb/gallon= % solid= %Sulfide=0.6. % Mercaptan= % NaOH= 1.36 % Carbonate= . 09 % Spent=	٥.47 کل
YZ/VI	N SI	lnitials Co	Trailer Number	1 00 00 00 00 1	pH= 13.8 S. gravity= Lb/gallon= % solid= %Sulfide= 383% Mercaptan= % NaOH= 1.93 8% Carbonate= 2.2 % Spent=	.4220



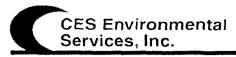
DATE	TIME	Initials	Trailer Number	Customer Job Number	TESTING TYPE & RESULTS	<u>Destination</u>
12-24	3.10	Initials	Trailer Number	TARGA JOB #: 78506 Profile #:2331	pH= S. gravity= Lb/gallon= · ① % solid= %Sulfide= % Mercaptan= % NaOH= \ \ · 5 (% Carbonate= % Spent=	Beridder
12-26	IME CS- O	Initials	Trailer Number	BATCH JOB 12-Z #: Profile #:	pH=\O 9\\$S. gravity= Lb/gallon= % solid= %Sulfide=0.33 % Mercaptan=0.46 % NaOH= 4.03 % Carbonate= 0.21 % Spent= 34.8	0.4413
DATE 12-26	10.33	Initials	Trailer Number	}	pH=13-Y LS. gravity= Lb/gallon= % solid= %Sulfide=0 % Mercaptan= % NaOH=19 48 % Carbonate= 1.45 % Spent= 18 3	0.4440
12-2L	TIME 10.YL	Initials	Trailer Number	TARGA JOB	pH= S. gravity= Lb/gallon= % solid= %Sulfide=572% Mercaptan= % NaOH= 13-62% Carbonate= © 83 % Spent= 63-1	0.224
DATE		Initials	Trailer Number	NASH(2) JOB #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide=2.21% Mercaptan= % NaOH= 14.27 % Carbonate= % Spent=	
n-U	J240	Initials	Trailer Number	LIOR XV	pH= 12-3 S. gravity= Lb/gallon= % solid= %Sulfide= % Mercaptan= % NaOH= % Carbonate= % Spent=	100 ml 1400 gellon of Aci
12.26	J.40	Initials		$_{\text{log}}$ (3)	pH= S. gravity= Lb/gallon= % solid= %Sulfide=5;\\ % Mercaptan= % NaOH=\\\ 8.2\\ % Carbonate= 3.\\\\ % Spent= \\ \\ \lambda 2.\lambda \\ \\ \lambda 2.\lambda \\	0.3120 /0.3768



DATE	TIME	Initials	Trailer Number	Customer Job Number	TESTING TYPE & RESULTS	Destination	
12-23	TIME	Initials	Trailer Number	NAS +(12-1 (5) JOB #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide=与り Mercaptan= % NaOH= 26 17% Carbonate= 1. 90 % Spent= 3ん 5		
DATE	TIME	Initials	Trailer Number	NASH JOB 12-1 (6) #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide=7-37 % Mercaptan= % NaOH=26-5 % Carbonate= 1-90 % Spent=		
DATE	TIME	Initials		NASH JOB #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide=916 % Mercaptan= % NaOH=25.0		
DATE	TIME	Initials		NASLI 12-1-(8) JOB #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide= \3.3 \ % Mercaptan= % NaOH= 7.3 \ % Carbonate= % Spent=		
12-23		Initials		JOB 7 8 419 #: 78 419 Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide= % Mercaptan= % NaOH= % Carbonate= % Spent=	seid for processing	
12-24	TIME	Initials		12-1	pH= S. gravity= Lb/gallon= % solid= %Sulfide= 13.1% Mercaptan= % NaOH= 23.214 % Carbonate= 3.34 % Spent= 96.5		
12.24	4-32	Initials	Trailer Number	JOB 18505 #: 18505 Profile #: 1201	pH= S. gravity=\.o\ Lb/gallon= % solid= %Sulfide= % Mercaptan= % NaOH=\.2 % Carbonate= % Spent=	serrider	

EPAPA001000845

MANDATORY: MUST FILL OUT EVERY DATA FIELD



DATE	TIME	Initials	Trailer Number	Customer Job Number	TESTING TYPE & RESULTS	Destination
12-22	5.(2	GC	Trailer Number 265	JOB #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide=1.76 % Mercaptan= % NaOH=6-\$7 % Carbonate= 0.85 % Spent=	
DATE 12-VZ	TIME	Initials	Trailer Number	ToTal JOB A TO 18 140 Profile #: 3092	pH= S. gravity= Lb/gallon=(5137) % solid=© %Sulfide= % Mercaptan= % NaOH= % Carbonate= % Spent=	Neutralisation 120 ml 4 ml of a cid 2% orl
12-22	TIME	Initials	Trailer Number	TOTAL Pet 10 101 #: 18141 Profile #3093	pH= S. gravity= Lb/gallon= (5134) % solid= %Sulfide= % Mercaptan= % NaOH= % Carbonate= % Spent=	
DATE	TIME	Initials	Trailer Number	TARGA (LSNG #: 77921 Profile #: 2806	pH=\3\circ\S. gravity=\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
12-23	11.30	Initials	Trailer Number	NASH 12-1 (3)	pH= S. gravity= Lb/gallon= % solid= %Sulfide=3.08% Mercaptan= % NaOH= 27.00% Carbonate= 1.93 % Spent= 26.5	0.4534
DATE 12-V3	7.00	Initials GG	•	JOB 7824 #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide=0.1%% Mercaptan= % NaOH=1.789 % Carbonate= 0.29 % Spent= 41.72	०.५१९
12-23	7.30	GG	Trailer Number	NASH (4)	pH= S. gravity= Lb/gallon= % solid= %Sulfide=4-(2% Mercaptan= % NaOH=21-32 % Carbonate= % Spent= 30.5	



DATE	TIME	Initials	Trailer Number	Customer Job Number	TESTING TYPE & RESULTS	<u>Destination</u>
DATE	11.33	Initials	Trailer Number	TAR CA JOB #: 77923 Profile #: 2 x 06	pH= 12 49S. gravity= 113 Lb/gallon= 9,42 % solid= 0 %Sulfide= 6.52% Mercaptan= NA % NaOH= 15.41 % Carbonate= 0 ; (, % Spent= 60.7)	In The Yourd
DATE	TIME	Initials	Trailer Number	ARKENA JOB 78063 Profile #: 2602	pH= S. gravity= / 06 Lb/gallon=	Redirect to Servider
12-18	TIME 9.13	Initials	Trailer Number	JOB 78275 #:	pH= S. gravity= / // Lb/gallon= % solid= %Sulfide= % Mercaptan= % NaOH=4 \$2 % Carbonate= % Spent=	Serrider
12-19	TIME 8 40	Initials	Trailer Number	JOB #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide= 0.97 % Mercaptan= 2.054 % NaOH= 9.15 % Carbonate= % Spent=	Jerni der
12-19		Initials	Trailer Number	JOB 66) #:Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide= 0 % Mercaptan= % NaOH= 9-5 % % Carbonate= % Spent=	Berrida
12-10	TIME 1230	Initials	Trailer Number	JOB #: Profile #:	pH= 13 40 S. gravity= Lb/gallon= % solid= %Sulfide= 0.7 f% Mercaptan= 0.95 l % NaOH= 8.79 % Carbonate= 0.49 % Spent= 19.2	0.4143
12-22	TIME	Initials	200	JOB #: Profile #:	pH= S. gravity= Lb/gallon= % solid= %Sulfide=1-(4) % Mercaptan= 0.67 % NaOH= 1009 % Carbonate= % Spent=	RV2





DATE	TIME	Initials	Trailer Number	Customer Job Number	TESTING TYPE & RESULTS	<u>Destination</u>
DATE 12-22	TIME	Initials	Trailer Number	JOB #:	pH= S. gravity= Lb/gallon= %Sulfide=1.35 mercaptan= 0.114 % NaOH= 0.52 % Carbonate= 0.52 % Spent= 2.61	4 RV2
12-22	TIME	Initials	Trailer Number	JOB #:	pH=13-38 S. gravity= Lb/gallon= %Sulfide=0 1/Imercaptan= 0.5% % NaOH= 8.535 % Carbonate= 65 % Spent= 23.7	14215 1500_ 1750 After about 1500 Check PH
DATE	TIME 1'.45	Initials Sm	Trailer Number Nach		pH= S, gravity= Lb/gallon= %Sulfide=U.55mercaptan= %	0.4232
12(U	3-10	GG	Trailer Number	FACK TANK JOB #: Profile #:	pH= S. gravity= Lb/gallon= %Sulfide= 0.33 nercaptan= 0.21 % NaOH= 6.22 % Carbonate= 0.52 % Spent= 21.2	
12/12	3-14	Initials GG	ピック	FRACK JOB TANK #: Profile #:	pH= [3-8 S. gravity= Lb/gallon= %Sulfide=0.5 mercaptan= %NaOH= [0-18 %Carbonate=0.455%Spent= 15-8	
12 /2 2	TIME	Initials	Trailer Number	NASH 12-1 (2) JOB #: Profile #:	pH= S. gravity= Lb/gallon= %Sulfide=3-43mercaptan= % NaOH= 27-43 % Carbonate= 1 986 % Spent= 30.5	· D: 440
12/1	TIME	Initials GG	Trailer Number	L 7 848 JOB #: Profile #:	pH= S_gravity= Lb/gallon= %Sulfide= %NaOH= %	

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Ship-To A	

CES ENVIRONMENTAL 2420 GULFWAY DRIVE PORT ARTHUR TX 77640 USA

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or

declared value of the property. The agreed or declared value of the property is hereby specially stated by the shipper to be not exceeding

PER

Information

Ship Date 30-Dec-08

Proposed Delivery Date 02-Jan-09 16:00:00

Delivery No. Order No.

80610104 10293817

Cust. PO CES SMOG ORDER-DEC 2008

Freight Terms

CPT

Mode Of Transport

Pipeline no COA

FEIN

74-2892487

From: Infineum USA L.P. 1300 LOWER ROAD

> 07036 Linden NJ

Supplier Code: US31

DOT Reg# 0060602 701 009K

Carrier Name: Hermann Transportation

RECEIVED. Subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading

The description and weight indicated on this bill of lading are correct. Subject to verification by the Western Weighing and Inspection Bureau according to agreement. Shippers imprint in lieu of stamp, not a part of bill of lading approved by the Interstate Commerce Commission.

*If the shipment between two ports by a carrier by water, the law requires the bill of lading

PLACARDS OFFERED CARRIER SIGNATURE

Shipping date: 30-Dec-08

shall state whether it is "carrier's or shipper's weight"

The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and designed as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination. It is mutually agreed as to, each carrier of all or any of said property overall or any position of said route to destination, and as to each party at any time interested in all any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform domestic Straight Bill Of Lading set forth (1) in uniform Freight Classification

in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment, Shipper hereby certifies that he is familiar with all the terms and conditions of the said Bill of Lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himselfand his assigns, if the delivery is made by sellers truck or into vehicle of buyer, Bill of Lading provisions are not applicable and this document will serve as delivery receipt.

DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS (SUB. TO CORR.)

FREIGHT WEIGHT

U.S. Department of Transportation - Road, Rail, Inland waterway:

Not regulated

This shipment contains oil.

0010

20014175

41DR TRANSPORT ID.: TRL 53181

Infineum D2344 20014175

Infineum D2344

NET GAL:

2,146.884

Delivery Quantity:41 DR

8,058.960 KG

Net Weight:

7,380.000 KG

EMPTY TRUCK WT: 3232.2486 LB

Vessel Cutoff Date:

ETD:

ETA:

Vessel Name:

Gross Weight:

Vovage:

Booking Number:

Seal #: Seal #:

TOTAL NET WEIGHT: 35238.496 LB

TOTAL GROSS WEIGHT: 38470.745 LB

FOR CHEMICAL EMERGENCY SPILL, FIRE, EXPOSURE, OR ACCIDENT, CALL CHEMTREC (day or night)--800-424-9300 or 703-527-3887 (Outside the

Carrier certifies that the cargo tank supplied for this shipment is a proper container, as required in part 173, for the transportation of the commodity in the bill of lading or other shipping papers

Thereby declare that the contents of this consignment are fully and accurately described above by proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations

Infineum USA L.P.

SHIPPER

Permanent Post Office Address of Shipper. P.O. BOX 719, LINDEN, NJ 07036-0719

If the charges are to be prepaid, write or stamp here,	"To	Ве
Prepaid."		
CPT		

Forward Freight bill to: Infineum USA L.P. P.O. Box 216 ||Linden N.I 07036

CARRIER PER

FPAPA001000848

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Ship-To Address CES ENVIRONMENTAL 2420 GULFWAY DRIVE PORT ARTHUR TX 77640 USA RECEIVED. Subject to the classifications and tariffs in effect on the From: Infineum USA L.P. 1300 LOWER ROAD Linden NJ 07036 Carrier Name: Hermann Transportation Shipping date: 30-Dec-08 The property described below, in apparent good order, except as not	DOT Reg# 0060602 701 009K Supplier Code: US31 The description and weight indicated on to by the Western Weighing and Inspection stamp, not a part of bill of lading approve *If the shipment between two ports by a content of the shipment between two ports by a		CPT Pipeline no COA 74-2892487 PLACARDS OFFERED CARRIER SIGNATURE
understood throughout this contract as meaning any person or corpo any of said property overall or any position of said route to destination said property, that every service to be performed hereunder shall be so in effect on the date hereof, if this is a rail or rail-water shipment, or with all the terms and conditions of the said Bill of Lading, including agreed to by the shipper and accepted for himselfand his assigns, if the not applicable and this document will serve as delivery receipt.	ration in possession of the property under the contract) ay m, and as to each party at any time interested in all any of buject to all the terms and conditions of the Uniform dom 2) in the applicable motor carrier classification or tariff if those on the back thereof, set forth in the classification on ne delivery is made by sellers truck or into vehicle of buye	grees to carry to its usual place of delivery at said desting the stic Straight Bill Of Lading set forth (1) in uniform Fractis is a motor carrier shipment, Shipper hereby certifies tariff which governs the transportation of this shipment, Bill of Lading provisions are	ation.It is mutually agreed as to, each carrier of all o eight Classification s that he is familiar
HM DESCRIPTION OF ARTICLE	S, SPECIAL MARKS AND EX SUB. TO		I WEIGH I
U.S. Department of Transporta This shipment contains oil. 0020 20010567 Infineum T4271 20010567 Infineum T4271 NET GAL: 188.800 Delivery Quantity:4 DR Gross Weight: 731.064 KG EMPTY TRUCK WT: 3232.2486 LB Vessel Cutoff Date: Vessel Name: Voyag Seal #: Seal #:	tion - Road, Rail, Inland waterw 4DR TRANSPORT ID.: TR Net Weight: 664.000 KG ETD: ETA:	/ay:	
TOTAL NET WEIGHT: 35238.496 LE	ТО	TAL GROSS WEIGHT: 38470	0.745 LB
FOR CHEMICAL EMERGENCY SPILL, FIRE US) (collect calls accepted)	E, EXPOSURE, OR ACCIDENT, CALL	CHEMTREC (day or night)-800-424-	-9300 or 703-527-3887 (Outside the
Carrier certifies that the cargo tank supplied for this shipment is a pro-	oper container, as required in part 173, for the transportat	ion of the commodity in the bill of lading or other shipp	ping papers.
I hereby declare that the contents of this consignment are fully and ac in all respects in proper condition for transport according to applicab		re classified, packaged, marked and labelled/placarded	i, and are
Infineum USA L.P. Permanent Post Office Address of Shipper. P.O. BOX 719, LINDEN	SHIPPER NJ 07036-0719		
Prepaid." CPT PER	Forward Freight bill to: Infineum USA L.P. P.O. Box 216 Linden N.I. 07036	CARRIER	



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Ship-To Address NOTE: Where the rate is dependent on value. Information shippers are required to state specificallyin writing the agreed or declared value of the property. The agreed **CES ENVIRONMENTAL Ship Date** 30-Dec-08 or declared value of the property is hereby 2420 GULFWAY DRIVE **Proposed Delivery Date** 02-Jan-09 16:00:00 specially stated by the shipper to be not PORT ARTHUR TX 77640 Delivery No. 80610104 USA Order No. 10293817 Cust. PO CES SMOG ORDER-DEC 2008 Freight Terms CPT RECEIVED. Subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading **Mode Of Transport** Pipeline no COA From: Infineum USA L.P. DOT Reg# 0060602 701 009K FEIN 74-2892487 1300 LOWER ROAD Linden NJ 07036 Supplier Code: US31 The description and weight indicated on this bill of lading are correct. Subject to verification Carrier Name: Hermann Transportation PLACARDS OFFERED by the Western Weighing and Inspection Bureau according to agreement. Shippers imprint in lieu of stamp, not a part of bill of lading approved by the Interstate Commerce Commission Shipping date: 30-Dec-08 CARRIER SIGNATURE *If the shipment between two ports by a carrier by water, the law requires the bill of lading shall state whether it is "carrier's or shipper's weight" The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and designed as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination. It is mutually agreed as to, each carrier of all or any of said property overall or any position of said route to destination, and as to each party at any time interested in all any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform domestic Straight Bill Of Lading set forth (1) in uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said Bill of Lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himselfand his assigns, if the delivery is made by sellers truck or into vehicle of buyer, Bill of Lading provisions are not applicable and this document will serve as delivery receipt. DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS FREIGHT WEIGHT HM (SUB. TO CORR.) U.S. Department of Transportation - Road, Rail, Inland waterway: Not regulated This shipment contains oil. 5DR TRANSPORT ID.: TRL 53181 0030 20010025 Infineum V387 20010025 Infineum V387 **NET GAL:** 264.721 **Delivery Quantity:5 DR** Gross Weight: 1,003.720 KG Net Weight: 920,000 KG **EMPTY TRUCK WT: 3232.2486 LB Vessel Cutoff Date:** ETD: ETA: Vessel Name: **Booking Number:** Vovage: Seal #: Seal #: **TOTAL GROSS WEIGHT: 38470.745 LB** TOTAL NET WEIGHT: 35238.496 LB FOR CHEMICAL EMERGENCY SPILL, FIRE, EXPOSURE, OR ACCIDENT, CALL CHEMTREC (day or night) -- 800-424-9300 or 703-527-3887 (Outside the Carrier certifies that the cargo tank supplied for this shipment is a proper container, as required in part 173, for the transportation of the commodity in the bill of lading or other shipping papers. I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations SHIPPER Infineum USA L.P. Permanent Post Office Address of Shipper. P.O. BOX 719, LINDEN, NJ 07036-0719 If the charges are to be prepaid, write or stamp here, "To Be Forward Freight bill to: CARRIER Infineum USA L.P. **CPT**

P.O. Box 216

Linden N.I 07036



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|| Linden N.I 07036

NOTE: Where the rate is dependent on value, **Ship-To Address** Information shippers are required to state specificallyin writing the agreed or declared value of the property. The agreed **CES ENVIRONMENTAL** Ship Date 30-Dec-08 or declared value of the property is hereby 2420 GULFWAY DRIVE 02-Jan-09 16:00:00 **Proposed Delivery Date** specially stated by the shipper to be not exceeding PORT ARTHUR TX 77640 Delivery No. 80610104 USA Order No. 10293817 Cust. PO CES SMOG ORDER-DEC 2008 Freight Terms CPT RECEIVED. Subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading **Mode Of Transport** Pipeline no COA From: Infineum USA L.P. DOT Reg# 0060602 701 009K **FEIN** 74-2892487 1300 LOWER ROAD Linden NJ 07036 Supplier Code: US31 Carrier Name: Hermann Transportation The description and weight indicated on this bill of lading are correct. Subject to verification PLACARDS OFFERED by the Western Weighing and Inspection Bureau according to agreement. Shippers imprint in lieu of tamp, not a part of bill of lading approved by the Interstate Commerce Commission Shipping date: 30-Dec-08 *If the shipment between two ports by a carrier by water, the law requires the bill of lading CARRIER SIGNATURE shall state whether it is "carrier's or shipper's weight" The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and designed as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination. It is mutually agreed as to, each carrier of all or any of said property overall or any position of said route to destination, and as to each party at any time interested in all any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform domestic Straight Bill Of Lading set forth (1) in uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment, Shipper hereby certifies that he is familiar with all the terms and conditions of the said Bill of Lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himselfand his assigns, if the delivery is made by sellers truck or into vehicle of buyer, Bill of Lading provisions are not applicable and this document will serve as delivery receipt. DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS FREIGHT WEIGHT HM (SUB. TO CORR.) U.S. Department of Transportation - Road, Rail, Inland waterway: Not regulated This shipment contains oil. 10DR TRANSPORT ID.: TRL 53181 0040 20010483 Infineum T4558 20010483 Infineum T4558 **NET GAL:** 528.252 Delivery Quantity:10 DR Gross Weight: 1,885.120 KG Net Weight: 1,720.000 KG **EMPTY TRUCK WT: 3232.2486 LB** Vessel Cutoff Date: ETD: ETA: Vessel Name: Voyage: **Booking Number:** Seal #: Seal #: TOTAL GROSS WEIGHT: 38470.745 LB TOTAL NET WEIGHT: 35238.496 LB FOR CHEMICAL EMERGENCY SPILL, FIRE, EXPOSURE, OR ACCIDENT, CALL CHEMTREC (day or night)--800-424-9300 or 703-527-3887 (Outside the Carrier certifies that the cargo tank supplied for this shipment is a proper container, as required in part 173, for the transportation of the commodity in the bill of lading or other shipping papers I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. Infineum USA L.P. SHIPPER Permanent Post Office Address of Shipper, P.O. BOX 719, LINDEN, NJ 07036-0719 If the charges are to be prepaid, write or stamp here, "To Be Forward Freight bill to: CARRIER Infineum USA L.P. CPT P.O. Box 216



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(This signature here acknowledge only the amout prepaid.)

Ship-To Address NOTE: Where the rate is dependent on value Information shippers are required to state specifically in writing the agreed or **CES ENVIRONMENTAL** 30-Dec-08 Ship Date declared value of the property. The agreed or declared value of the property is hereby 2420 GULFWAY DRIVE 02-Jan-09 16:00:00 **Proposed Delivery Date** specially stated by the shipper to be not exceeding PORT ARTHUR TX 77640 Delivery No. 80610104 USA Order No. 10293817 Cust. PO CES SMOG ORDER-DEC 2008 Freight Terms CPT RECEIVED. Subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading **Mode Of Transport** Pipeline no COA From: Infineum USA L.P. DOT Reg# 0060602 701 009K **FEIN** 74-2892487 1300 LOWER ROAD Linden NJ 07036 Supplier Code: US31 Carrier Name: Hermann Transportation The description and weight indicated on this bill of lading are correct. Subject to verification PLACARDS OFFERED by the Western Weighing and Inspection Bureau according to agreement. Shippers imprint in lieu of stamp, not a part of bill of lading approved by the Interstate Commerce Commission. Shipping date: 30-Dec-08 CARRIER SIGNATURE *If the shipment between two ports by a carrier by water, the law requires the bill of lading shall state whether it is "carrier's or shipper's weight" The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and designed as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination. It is mutually agreed as to, each carrier of all or any of said property overall or any position of said route to destination, and as to each party at any time interested in all any of id property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform domestic Straight Bill Of Lading set forth (1) in uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment, Shipper hereby certifies that he is familiar with all the terms and conditions of the said Bill of Lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns, if the delivery is made by sellers truck or into vehicle of buyer, Bill of Lading provisions are not applicable and this document will serve as delivery receipt. DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS FREIGHT WEIGHT (SUB. TO CORR.) U.S. Department of Transportation - Road, Rail, Inland waterway: Not regulated This shipment contains oil. 0050 20011159 17DR TRANSPORT ID.: TRL 53181 Infineum P5315 20011159 Infineum P5315 **NET GAL:** 899.073 Delivery Quantity:17 DR **Gross Weight:** 3,584.926 KG Net Weight: 3,298.000 KG **EMPTY TRUCK WT: 3232.2486 LB** Vessel Cutoff Date: ETD: ETA: Vessel Name: **Booking Number:** Vovage: Seal #: Seal #: **TOTAL GROSS WEIGHT: 38470.745 LB** TOTAL NET WEIGHT: 35238.496 LB FOR CHEMICAL EMERGENCY SPILL, FIRE, EXPOSURE, OR ACCIDENT, CALL CHEMTREC (day or night)-800-424-9300 or 703-527-3887 (Outside the Carrier certifies that the cargo tank supplied for this shipment is a proper container, as required in part 173, for the transportation of the commodity in the bill of lading or other shipping papers. I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name, and are classified, packaged, marked and labelled/ placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations **SHIPPER** Infineum USA L.P. Permanent Post Office Address of Shipper. P.O. BOX 719, LINDEN, NJ 07036-0719 Forward Freight bill to: CARRIER If the charges are to be prepaid, write or stamp here, "To Be Prepaid.' Infineum USA L.P. CPT P.O. Box 216

||Linden N.I 07036

(This signature here acknowledge only the amout prepaid.)

|| Linden N.I 07036



ORIGINAL NOT NEGOTIABLE NOTE: Where the rate is dependent on value. Ship-To Address Information shippers are required to state specifically in writing the agreed or declared value of the property. The agreed **CES ENVIRONMENTAL Ship Date** 30-Dec-08 or declared value of the property is hereby 2420 GULFWAY DRIVE **Proposed Delivery Date** 02-Jan-09 16:00:00 specially stated by the shipper to be not exceeding Delivery No. PORT ARTHUR TX 77640 80610104 Order No. 10293817 USA Cust. PO CES SMOG ORDER-DEC 2008 Freight Terms **CPT** RECEIVED. Subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading. Mode Of Transport Pipeline no COA From: Infineum USA L.P. DOT Reg# 0060602 701 009K FEIN 74-2892487 1300 LOWER ROAD 07036 Supplier Code: US31 Linden NJ The description and weight indicated on this bill of lading are correct. Subject to verification Carrier Name: Hermann Transportation PLACARDS OFFERED by the Western Weighing and Inspection Bureau according to agreement. Shippers imprint in lieu of stamp, not a part of bill of lading approved by the Interstate Commerce Commission Shipping date: 30-Dec-08 CARRIER SIGNATURE *If the shipment between two ports by a carrier by water, the law requires the bill of lading shall state whether it is "carrier's or shipper's weight" The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and designed as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination. It is mutually agreed as to, each carrier of all or any of said property overall or any position of said route to destination, and as to each party at any time interested in all any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform domestic Straight Bill Of Lading set forth (1) in uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tarriff if this is a motor carrier shipment, Shipper hereby certifies that he is familiar with all the terms and conditions of the said Bill of Lading, including those on the back thereof, set forth in the classification or tarriff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns, if the delivery is made by sellers truck or into vehicle of buyer, Bill of Lading provisions are not applicable and this document will serve as delivery receipt НМ DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS FREIGHT WEIGHT (SUB. TO CORR.) U.S. Department of Transportation - Road, Rail, Inland waterway: Not regulated 0060 20014348 1DR TRANSPORT ID.: TRL 53181 Infineum C9433 20014348 Infineum C9433 **NET GAL:** 49.923 Delivery Quantity:1 DR Gross Weight: 193.706 KG Net Weight: 176.900 KG **EMPTY TRUCK WT: 3232.2486 LB** Vessel Cutoff Date: ETD: ETA: Vessel Name: **Booking Number:** Vovage: All branding must be on labels with the Infineum logo. All other labels, other than DOT and Hazard markings, must be removed. Seal #: Seal #: TOTAL NET WEIGHT: 35238,496 LB **TOTAL GROSS WEIGHT: 38470,745 LB** FOR CHEMICAL EMERGENCY SPILL, FIRE, EXPOSURE, OR ACCIDENT, CALL CHEMTREC (day or night)--800-424-9300 or 703-527-3887 (Outside the US) (collect calls accepted) Carrier certifies that the cargo tank supplied for this shipment is a proper container, as required in part 173, for the transportation of the commodity in the bill of lading or other shipping papers I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. **SHIPPER** Infineum USA L.P. Permanent Post Office Address of Shipper. P.O. BOX 719, LINDEN, NJ If the charges are to be prepaid, write or stamp here, "To Be Forward Freight bill to CARRIER Infineum USA L.P. **CPT** P.O. Box 216 PER

(This signature here acknowledge only the amout prepaid.)

|| Linden N.I 07036



ORIGINAL NOT NEGOTIABLE NOTE: Where the rate is dependent on value. **Ship-To Address** Information shippers are required to state specifically in writing the agreed or declared value of the property. The agreed **CES ENVIRONMENTAL Ship Date** 30-Dec-08 or declared value of the property is hereby 2420 GULFWAY DRIVE **Proposed Delivery Date** 02-Jan-09 16:00:00 specially stated by the shipper to be not PORT ARTHUR TX 77640 Delivery No. 80610104 USA Order No. 10293817 Cust. PO CES SMOG ORDER-DEC 2008 **Freight Terms** CPT RECEIVED. Subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading **Mode Of Transport** Pipeline no COA From: Infineum USA L.P. DOT Reg# 0060602 701 009K 74-2892487 1300 LOWER ROAD FEIN __NJ Supplier Code: US31 07036 The description and weight indicated on this bill of lading are correct. Subject to verification Carrier Name: Hermann Transportation PLACARDS OFFERED by the Western Weighing and Inspection Bureau according to agreement. Shippers imprint in lieu of stamp, not a part of bill of lading approved by the Interstate Commerce Commission Shipping date: 30-Dec-08 CARRIER SIGNATURE *If the shipment between two ports by a carrier by water, the law requires the bill of lading shall state whether it is "carrier's or shipper's weight" The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and designed as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination. It is mutually agreed as to, each carrier of all or any of said property overall or any position of said route to destination, and as to each party at any time interested in all any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform domestic Straight Bill Of Lading set forth (1) in uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment, Shipper hereby certifies that he is familiar with all the terms and conditions of the said Bill of Lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns, if the delivery is made by sellers truck or into vehicle of buyer, Bill of Lading provisions are not applicable and this document will serve as delivery receipt. HM **DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS** FREIGHT WEIGHT (SUB. TO CORR.) U.S. Department of Transportation - Road, Rail, Inland waterway: Х UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III, RQ (Naphthalene), ERG-No.: 128. 0070 20010406 9DR TRANSPORT ID.: TRL 53181 Infineum M7187 20010406 Infineum M7187 **NET GAL:** 473.431 **Delivery Quantity:9 DR** Gross Weight: 1,788.696 KG Net Weight: 1,638,000 KG **EMPTY TRUCK WT: 3232.2486 LB Vessel Cutoff Date:** ETD: ETA: Vessel Name: Voyage: **Booking Number:** Seal #: Seal #: TOTAL NET WEIGHT: 35238,496 LB TOTAL GROSS WEIGHT: 38470.745 LB FOR CHEMICAL EMERGENCY SPILL, FIRE, EXPOSURE, OR ACCIDENT, CALL CHEMTREC (day or night)--800-424-9300 or 703-527-3887 (Outside the US) (collect calls accepted) Carrier certifies that the cargo tank supplied for this shipment is a proper container, as required in part 173, for the transportation of the commodity in the bill of lading or other shipping papers I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. SHIPPER Infineum USA L.P. ent Post Office Address of Shipper, P.O. BOX 719, LINDEN, NJ 07036-0719 Forward Freight bill to: If the charges are to be prepaid, write or stamp here, "To Be CARRIER Prepaid. Infineum USA L.P. CPT P.O. Box 216 PER PER



ORIGINAL NOT NEGOTIABLE

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(This signature here acknowledge only the amout prepaid.)

| Linden N.I 07036

NOTE: Where the rate is dependent on value, Ship-To Address Information shippers are required to state specifically in writing the agreed or declared value of the property. The agreed **CES ENVIRONMENTAL Ship Date** 30-Dec-08 or declared value of the property is hereby 2420 GULFWAY DRIVE **Proposed Delivery Date** 02-Jan-09 16:00:00 specially stated by the shipper to be not PORT ARTHUR TX 77640 Delivery No. 80610104 Order No. 10293817 USA Cust. PO CES SMOG ORDER-DEC 2008 Freight Terms CPT RECEIVED. Subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading **Mode Of Transport** Pipeline no COA From: Infineum USA L.P. DOT Reg# 0060602 701 009K FEIN 74-2892487 1300 LOWER ROAD Supplier Code: US31 Linden NJ 07036 The description and weight indicated on this bill of lading are correct. Subject to verification by the Western Weighing and Inspection Bureau according to agreement. Shippers imprint in lieu of Carrier Name: Hermann Transportation PLACARDS OFFERED tamp, not a part of bill of lading approved by the Interstate Commerce Commission Shipping date: 30-Dec-08 CARRIER SIGNATURE *If the shipment between two ports by a carrier by water, the law requires the bill of lading shall state whether it is "carrier's or shipper's weight" The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and designed as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination. It is mutually agreed as to, each carrier of all or any of said property overall or any position of said route to destination, and as to each party at any time interested in all any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform domestic Straight Bill Of Lading set forth (1) in uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment, Shipper hereby certifies that he is familiar with all the terms and conditions of the said Bill of Lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himselfand his assigns, if the delivery is made by sellers truck or into vehicle of buyer, Bill of Lading provisions are not applicable and this document will serve as delivery receipt. FREIGHT WEIGHT HM DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS (SUB. TO CORR.) U.S. Department of Transportation - Road, Rail, Inland waterway: Not regulated This shipment contains oil. 20010121 1DR TRANSPORT ID.: TRL 53181 0080 Infineum C9220 20010121 Infineum C9220 NET GAL: 53 Delivery Quantity:1 DR Gross Weight: 203.830 KG Net Weight: 187.000 KG **EMPTY TRUCK WT: 3232.2486 LB Vessel Cutoff Date:** ETD: ETA: Vessel Name: Voyage: **Booking Number:** Seal #: Seal #: TOTAL NET WEIGHT: 35238,496 LB **TOTAL GROSS WEIGHT: 38470,745 LB** FOR CHEMICAL EMERGENCY SPILL, FIRE, EXPOSURE, OR ACCIDENT, CALL CHEMTREC (day or night)-800-424-9300 or 703-527-3887 (Outside the Carrier certifies that the cargo tank supplied for this shipment is a proper container, as required in part 173, for the transportation of the commodity in the bill of lading or other shipping papers. I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. **SHIPPER** Infineum USA L.P. Permanent Post Office Address of Shipper. P.O. BOX 719, LINDEN, NJ 07036-0719 If the charges are to be prepaid, write or stamp here, "To Be Forward Freight bill to: CARRIER Infineum USA L.P. **CPT** P.O. Box 216

1067/16

INFINEUM-SUPPLY POINT LOADING NOTIFICATION

MPALIS / MPALIS 29-Dec-08 / 19:59 Seq. no. 0000000127



Supplier		
1900 E LING LINDEN NJ USA	n Ávenue	Information Page1/2 Order Ref: 10294208 Delivery Ref: 80610629 Customer Ref: CES SMOG ORDER Infineum PO No: Seller Contact: Mary Celestina Palis Tel/Fax: 9084747757 Email: mary.palis@infineum.com
Consignee/S CES ENVIRO 2420 GULFV PORT ARTH USA Tel: 7132404	/AY DRIVE UR TX 77640	Sold To / Payer CES ENVIRONMENTAL SERVICES, INC 4904 GRIGGS ROAD HOUSTON TX 77021 USA
Carrier / Ser Prime, Inc. PO Box 8022 KANSAS CIT USA	_	Supply Point South Coast Terminal 7301 WALLISVILLE ROAD Houston TX 77020 USA Shipping Point: US16
Shipping Cor Means of Tra	dition: Pipeline no COA nsport: Pipeline	
Means of Tra	dition: Pipeline no COA nsport: Pipeline of goods	20
Shipping Cor Means of Tra	dition: Pipeline no COA nsport: Pipeline	Order Quantity : 88 DR Gross Weight: 17,313.120 KG Nr. of Drums : 88 DR Net Weight per Drum : 180.000 KG
Shipping Cor Means of Tra Description 000010	odition: Pipeline no COA nsport: Pipeline of goods 20014634 Infineum F758 Load Date : 31-Dec-08	Order Quantity : 88 DR Gross Weight: 17,313.120 KG Nr. of Drums : 88 DR
Shipping Cor Means of Tra Description 000010 With follo	odition: Pipeline no COA nsport: Pipeline of goods 20014634 Infineum F758 Load Date : 31-Dec-08 Requested delivery date : 31-Dec-08	Order Quantity : 88 DR Gross Weight: 17,313.120 KG Nr. of Drums : 88 DR
Shipping Cor Means of Tra Description 000010 With follo	dition: Pipeline no COA nsport: Pipeline of goods 20014634 Infineum F758 Load Date : 31-Dec-08 Requested delivery date : 31-Dec-08 wing dangerous goods data : Corrosive material J.S. Department of Transportation - Road,	Order Quantity: 88 DR Gross Weight: 17,313.120 KG Nr. of Drums: 88 DR Net Weight per Drum: 180.000 KG Rail, Inland waterway:
Shipping Cor Means of Tra Description 000010 With follo	dition: Pipeline no COA nsport: Pipeline of goods 20014634 Infineum F758 Load Date : 31-Dec-08 Requested delivery date : 31-Dec-08 wing dangerous goods data : Corrosive material J.S. Department of Transportation - Road,	Order Quantity: 88 DR Gross Weight: 17,313.120 KG Nr. of Drums: 88 DR Net Weight per Drum: 180.000 KG

MPALIS / MPALIS	NEUM-SUPPLY POIN	T LOADING NOT	TIFICATION			
29-Dec-08 / 19:59 Seq. no. 0000000127		Infineum				
Order Ref: 10294208 Delivery Ref: 80610629 Customer Ref: CES SMOG ORDE Infineum PO No:	Continuation of ORDER					
END						

BU 18282

STRAIGHT BILL OF LADING – SHORT FORM ORIGINAL – NOT NEGOTIABLE

Shippers Number:

RET01 Page: 1 of 1

Date: 12/16/08

Route: via

Originating Carrier

Delivering Carrier ESTES

Container Number (s)

Seal Number (s)

Received, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, at the property described below in apparent good order, except as noted (contents and conditions of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract as its usual place of delivery at said destination, if on its route, observing to another carrier on the notice to aid destination. It is mutually agreed, as to each center of all or any of said property over all or any person or faid route to destination, and as to each party at any time interested in all or any of said property over all or any person or faid route to destination, and as to each party at any time interested in all or any of said property over all or any person or faid route to destination. It is mutually agreed, as to each center of all or any of said property over all or any person or faid route to destination, and as to each party at any time interested in all or any of said property over all or any person or faid route to destination. It is mutually agreed, as to each center of all or any of said property over all or any person or subject to all the terms and conditions of the said property over all or any person or composition or tariff if this is a unior carrier shipment.

Shipper therefore, extended the terms and conditions or of the said bill of Indiang, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipper and accepted for himself and his assigns.

TO: CES ENVIRONMENTAL SERVICES 2420 GULF WAY DRIVE

FROM: Shipper:

2420 GULF WAY DRIVE PORT ARTHUR, TX 77641

RIVERS EDGE TERMINALS 1350 WEST FOURTH STREET

(Mail or Street Address of Consignee for Purposes of Notification Only)

Origin: MADISON, IL 62060

Customer Purchase Order #: RET-1

Line	Material	Quantity/	Н	Descriptions & Instructions	*Net Weight/
Item	Code	Sales Unit	M		*Gross Weight (Subject to Correction)
0001	012234	8 Drums		HiTEC 5046 Lot# 1102FS0388	3,280 LB GWT
0002	017338	1 Drum		HITEC 511T Lot# 1005PM080 2941	476 LB GWT
0003	017522	53 Drums		HiTEC 8153 Lot# 0106SA001 2 781	24,645 LB GWT
0004	018859	26 Drums		HITEC 953A Lot# 0805SA001 2 7 4 1	11,908 LB GWT
				TRANSPORTATION REGULATORY TEXT:	
				Bill of Lading Weight Totals for All Items, All Pages	40,309 LB GWT

"Where the rates of any of the items listed are dependent on released value, be agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding 1300 cents per pound."

Subject to Section 7 of conditions of applicable bills of lading. If this shipment is to be delivered to the consignor without recourse on the consigner, the consignor shall sign the following statement. The carrier stall not make delivery of this abipment shall sign the following statement. The carrier stall not make delivery of this abipment without payment of freight and all other lawful charges.

This is to certify that the above named moterials are properly classified, described, packaged, marked and labeled and are in proper condition, to transportation shipment without payment of freight and all other lawful charges.

This is to certify that the above named moterials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Departm of Transportation.

This is to certify that the above named moterials are properly described, packaged, marked and labeled and are in proper condition, to transportation according to the applicable regulations of the Departm of Transportation.

This is to certify that the above named moterials are properly described, packaged, marked and labeled and are in properly classified, described, packaged, marked and labeled and are in properly classified, described, packaged, marked and labeled and are in properly classified, described, packaged, marked and labeled and are in properly classified, described, packaged, marked and labeled and are in properly classified, described, packaged, marked and labeled and are in properly classified, described, packaged, marked and labeled and are in properly classified, described, packaged, marked and labeled and in properly classified, described, packaged, marked and labeled and in properly classified, described, packaged, marked and labele

Moll revenue bills on prepate
Shipments to the address below.

This shipment is correctly described subject to Verification in accordance with any applicable Agreement with Railroads or the weighing and Inspection Barcau having jurisdiction.

SIGNATURE OF CONSIGNOR
Outage in compliance with Tariff
No. BDE6000 and supplements
Thereto or reissoes
thereof
SHIPPER:

PER

TRANSPORTATION EMERGENCY: CALL CHEMTREC 1-800-424-9300 or Afton 1-800-403-0044

STRAIGHT BILL OF LADING - SHORT FORM ORIGINAL - NOT NEGOTIABLE

Shippers Number:

RET01 Page: 1 of 1

Date: 12/16/08

Route: via

Originating Carrier

Delivering Carrier **ESTES**

Container Number (s)

Seal Number (s)

Received, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, at the property described below in apparent good order, except as noted (contents and conditions of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Preingth Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if his is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: CES ENVIRONMENTAL SERVICES 2420 GULF WAY DRIVE PORT ARTHUR, TX 77641

FROM: Shipper:

RIVERS EDGE TERMINALS 1350 WEST FOURTH STREET

(Mail or Street Address of Consignee for Purposes of Notification Only)

Origin: MADISON, IL 62060

Customer Purchase Order #: RET-1

Line Item	Material Code	Quantity/ Sales Unit	H	Descriptions & Instructions	*Net Weight/ *Gross Weight
0001	012234	8 Drums		HiTEC 5046 Lot# 1102FS0388	(Subject to Correction) 3,280 LB GWT
0002	017338	1 Drum		HïTEC 511T Lot# 1005PM080	476 LB GWT
0003	017522	53 Drums		HITEC 8153 Lot# 0106SA001	24,645 LB GWT
0004	018859	26 Drums	:	HiTEC 953A Lot# 0805SA001	11,908 LB GWT
				TRANSPORTATION REGULATORY TEXT:	
	<u> </u>	L		Dill of Lading Weight Tetals for All Homes All Dages	40 200 I D CWT

Bill of Lading Weight Totals for All Items, All Pages

40,309 LB GWT

"Where the rates of any of the items listed are dependent on released value, he agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding 1300 cents per pound."		Subject to Section 7 of conditions of applicable bills of lading. If this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement. The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.		This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.
*If the shipments move between two ports by a carri requires that the Bill of Lading shall state whether it Shipper's weight.				Mulliams
IF CHARGES ARE TO BE PREPAID, WRITE "PREPAID"	OR STAMP HERE	SHELL GALLONAGE CAPACITY		Signature
Mail revenue bills on prepaid Shipments to the address below.	Verification in accorda	nce with any applicable Outage in No. BOE6	TURE OF CONSIGNOR compliance with Tariff 000 and supplements reissues	AGENT PER:
	PER			

TRANSPORTATION EMERGENCY: CALL CHEMTREC 1-800-424-9300 or Afton 1-800-403-0044

STRAIGHT BILL OF LADING - SHORT FORM - NOT NEGOTIABLE - ORIGINAL

Received, subject to the classifications and tariffs in effect on the date of this Bill of Lading.

which said carrier (the usual place of delivery property over all or any subject to all the terms shipment, (2) in the ap Shipper hereby certified the transportation of the	below, in apparent good order except as noted (contents and condition word carrier being understood throughout this contract as meaning any at said destination, if on its route, otherwise to deliver to another carrier portion of said route to destination, and as to each party at any time into and conditions of the Uniform Domestic Straight Bill of Lading set forther plicable motor carrier classification or tariff if this is a motor carrier shipm is that he is familiar with all the terms and conditions of the said bill of lac is shipment, and the said terms and conditions are hereby agreed to by noes a delivery by shipper's truck or into consignee's truck, it is not a bill	person or corporation in possession of the propert on the route to said destination. It is mutually agreested in all or any of said property; that every se (1) in Uniform Freight Classification in effect on the tent. ining, including those on the back thereof, set forth the shipper and accepted for himself and his assign.	y under the contract) agrees to carry to the sed, as to each carrier of all or any of said trice to be performed hereunder shall be a date hereof, if this is a rail or a rail-water in the classification or tariff which governs
		DATE:	12/31/08
		PAGE:	1 of 1
SHIPPER:		DELIVER TO:	
	nical Services	CES ENVIRONMENTAL	
334 Tidal R		4904 GRIGGS ROAD	
Deer Park,	TX 77536	HOUSTON,TX 77021	
	SHIP VIA:		
НМ	PRODUCT NA	AME	SHIP QTY
			Ã.
	HITEC DRUMS FOR DISPOSAL LUBE OIL ADDITIVE NOT REGULATED FOR TRANSPO	ORTATION	24DRUMS
			GROSS
			WT.10,714
This is to certify the	ross weight thereof as shown herein are correct, per A hat the above-named materials are properly classified, cording to the applicable regulations of the Departmen	, described, marked, and labeled and	ection Bureau, if applicable.
SPILL, LI Call CHEI For c	FOR CHEMICAL EMERGENCY EAK, FIRE, EXPOSURE OR ACCID MTREC 1-800-424-9300 DAY OR N call originating outside of the U.S. 527-3887 Washington, D.C. collect	SHIPPER: IGHT Carrier certifies that the containe a proper container for transporte	er supplied by Carrier for this shipment is attion of the Product as above described.

Problem Carls	distribution therms.			Commonts	
AF18081	HiTEC 5715	0606PA172	5 N004		2981
AF12583	HiTEC 5727	0803PA300	1 A031		2981
AF12583	HiTEC 5727	1105PA363	1 Z173		2981
AF15460	HITEC 5769	0906PA293	5 ST01		2981
AF18608	HITEC 5785	1106PA360	2 N004		2981
AF11869	HITEC 614	0705SA035	2 0076		2937
AF11869	HITEC 614	0705SA039	1 0076		2937
AF11869	HITEC 614	0705SA039	1 C036		2937
AF14381	HiTEC 343	0904SA162	1 Z 070		2945
AF14057	HITEC 5708	0106PA027	1 N004	The second secon	2981
AF14057	HITEC 5708	0806PA262	1 M002		2981
AF14057	HiTEC 5708	0307PA096	1 C036		2981

ORIGINAL NOT NEGOTIABLE

NOTE: Where the rate is dependent on Information Ship-To Address value, shippers are required to state specifically in writing the agreed or 31-Dec-08 Ship Date declared value of the property. The agreed CES ENVIRONMENTAL 31-Dec-08 16:00:00 or declared value of the property is hereby specially stated by the shipper to be not **Proposed Delivery Date** 2420 GULFWAY DRIVE 80610629 Delivery No. PORT ARTHUR TX 77640 10294208 Order No. USA Cust. PO CES SMOG ORDER CPT Freight Terms RECEIVED. Subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading. Pipeline no COA Mode Of Transport DOT Reg# 0060602 701 009K From: Infineum USA L.P. 74-2892487 FEIN 7301 WALLISVILLE ROAD Supplier Code: US16 Houston TX 77020 The description and weight indicated on this bill of lading are correct. Subject to verification PLACARDS OFFERED Carrier Name: Prime, Inc. the description and weight indicated on this offf of lading are confect. Subject to verification by the Western Weighting and Inspection Bureau according to agreement. Shippers imprint in lieu of stamp, not a part of bill of lading approved by the Interstate Commerce Commission. *If the shipment between two ports by a carrier by water, the law requires the bill of lading shall state whether it is "carrier's or shipper's weight" CARRIER SIGNATURE Shipping date: 31-Dec-08 The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown),marked, consigned and designed as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination. It is mutually agreed as to, each carrier of all or any of said property overall or any position of said route to destination, and as to each party at any time interested in all any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform domestic Straight Bill Of Lading set forth (1) in uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2)in the applicable motor carrier classification or tariff if this is a motor carrier shipment, Shipper hereby activities that he is familiar with all the terms and conditions of the said Bill of Lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accented for himself and his assigns if the delivery is made by sellers truck or into vehicle of haver. Bill of Lading provisions are conditions are hereby agreed to by the shipper and accepted for himself and his assigns, if the delivery is made by sellers truck or into vehicle of buyer, Bill of Lading provisions are not applicable and this document will serve as delivery receipt. FREIGHT WEIGHT DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS HM (SUB. TO CORR.) U.S. Department of Transportation - Road, Rail, Inland waterway: UN1760 , CORROSIVE LIQUID, N.O.S. (Nonyl phenol) , 8 , III , RQ (Naphthalene) , ERG-No.: 154. Х This shipment contains oil. TRANSPORT ID.: 26789 88DR 0010 20014634 Infineum F7580 20014634 Infineum F7580 4,577.731 NET GAL: Delivery Quantity:88 DR Net Weight: 15,840.000 KG Gross Weight: 17,313.120 KG EMPTY TRUCK WT: 3534.7490 LB Vessel Cutoff Date: ETD: RECEIVED Vessel Name: Voyage: Booking Number: MSDS The sulfur content of this diesel fuel additive does not exceed 15 ppm. COA Seal #: Seal #: Placards Driver's InitialS TOTAL GROSS WEIGHT: 38456.000 LB TOTAL NET WEIGHT: 34921.251 LB FOR CHEMICAL EMERGENCY SPILL, FIRE, EXPOSURE, OR ACCIDENT, CALL CHEMTREC (day or night)--800-424-9300 or 703-527-3887 (Outside the US) (collect calls accepted) Carrier certifies that the cargo tank supplied for this shipment is a proper container, as required in part 173, for the transportation of the commodity in the bill of lading or other shipping papers. I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name, and are classified, packaged flarked and labelled / placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. Infineum USA L.P. SHIPPER Permanent Post Office Address of Shipper. P.O. BOX 719, LINDEN, NJ 07036-0719 If the charges are to be prepaid, write or stamp here, "To Forward Freight bill to: CARRIER Be Prepaid. Infineum USA L.P. **CPT** P.O. Box 216 (This signature here acknowledge only the amout prepaid.) Linden, NJ 07036.

2014

STRAIGHT BILL OF LADING - SHORT FORM - NOT NEGOTIABLE - ORIGINAL

Received, subject to the classifications and tariffs in effect on the date of this Bill of Lading.

which said carrier (the usual place of delivery property over all or any subject to all the terms shipment, (2) in the ap	below, in apparent good order except as noted (contents and condition of word carrier being understood throughout this contract as meaning any per at said destination, if on its route, otherwise to deliver to another carrier on portion of said route to destination, and as to each party at any time intere and conditions of the Uniforn Domestic Straight Bill of Lading set forth (1) plicable motor carrier classification or tariff if this is a motor carrier shipmer s that he is familiar with all the terms and conditions of the said bill of lading.	rson or corporation in possession of the proper the route to said destination. It is mutually agreested in all or any of said property; that every se in Uniform Freight Classification in effect on the nt.	y under the contract) agrees to carry to the sed, as to each carrier of all or any of said rvice to be performed hereunder shall be e date hereof, if this is a rail or a rail-water
the transportation of th	s that he is familiar with all the terms and conditions of the said bill of lading is shipment, and the said terms and conditions are hereby agreed to by the noes a delivery by shipper's truck or into consignee's truck, it is not a bill of	e shipper and accepted for himself and his assign	ins.
			11/17/2008
		PAGE:	1 of 1
SHIPPER:		DELIVER TO:	
		CES ENVIRONMENTAL	-
		4904 GRIGGS ROAD	
334 Tidal F Deer Park,		HOUSTON, TX 77021	
	SHIP VIA: CUSTOMER PICK UI	P	
НМ	PRODUCT NA	ME	SHIP QTY
НМ	HITEC POST FLUSH AND PRE FLU LUBE OIL ADDITIVE NOT REGULATED FOR TRANSPO	JSH	92 Drums
НМ	HITEC POST FLUSH AND PRE FLU LUBE OIL ADDITIVE	JSH	

Description and gross weight thereof as shown herein are correct, per Agreement filed with Weight and Inspection Bureau, if applicable. This is to certify that the above-named materials are properly classified, described, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

FOR CHEMICAL EMERGENCY
SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT
Call CHEMTREC 1-800-424-9300 DAY OR NIGHT
For call originating outside of the U.S.:
703-527-3887 Washington, D.C. collect

Carrier certifies that the container supplied by Carrier for this shipment is a proper container for transportation of the Reduct as above described.

CARRIER:

Les la				Hoolo
γ φ φ Γ γ duct Code	Product Name	Lot Number	Qty.	Location
Dre	Hitec 6421	0607110009	l	
Pre	Hitec 5708	0707PA263)	
P057	Htec 1921	04071+0006	1	wt.158
Pre	Hitec 6560	0507170048	(
Post	Hitec 340	010824030	1	W1-192
Past	Hitec 343	010884030)	W 214
Poe	Hiter 9300	0607H0018	<u> </u>	
Pre	14.tec 5724	0607PAZI7	1	
Pre	Hoter 6560	0507H0048	L. i	
Pre	@ Hiter 57770	800M25040	(
Pre	Hitec 7411 *	29000037917 5	.)	
Pre	H- 5747	05070006	(
Post	H-5774	040784129	l	w+ 261
Post	H- 5774	0407PA129	(Wi- 232
Post	H-9300	040717011	(W1-168
Post	H-5788	0507PA149	<u> </u>	ut. 161
Pre	Hitec 5739	0706PAZIS	1	
Pre	H-5750	050799165		
pre	H- 5750	DCS- 5-24-07	(
Pre	H-1919	050740010		
fre	H-466	05079A004	(
tre	H- 7050	103577	1	
Vie	H-5770	04075W008		
1051	H-9300	040740010		Wt-155
Pre	H-7411 X	090003396844	(
_Post	H-5708	6407PAL44		w. 227
436.4	H- 5710	0407PA143	Ĭ	W. 241
Post,	H-5710	04 07PA 143	, and a second	W/ 156

Noton tak

HAZZ

Froduct Code	Product Name	Lot Number	Qty.	Location
-	Hitec 6403	060740011	100165	
-	Hitec 5777 D	905W008	Are 375 lbs	
	Hitec 1921	040740006	239/5	
	Hitec 6431	6507 HOOLO	Pre 165	
	Hitpc 521	0269SA047	P.e 1400165	
	Hite65757	0208 60017	78/11/25	
	Mitec 1921	0707H0015	Pre 400165	
	Witer 5704	6707PA244	Pre 400165	
	Hitec 5717D	64075WCG8	13716S	
	Hitec 1921	6407H000 6	Pre 400 165	
	Hitec 7411. *	96600388839	Yw(hs	
	Hitec 4560	610740013	PRE 400165	
	HItec 9325	6407 H000Ce	50 lbs	
	H11te 9325	04074000ce	129 16s	
	Hitec 9300	040740011	19916S	
·	HIFEC 5768	0507PA149	rust 132165	· ·
	HITEC 8053	DCSU72607	Pres 400/bs	
	1114ec 5708A	100 lePA331	Pre 3861bs	
	41/tec 5714	0707PA248	400165	
	Hitec usled	0707 HOUSS	ARE 40016S	
	Hitec 1921	1007110026	PRE 40010S	
	HHEC 4995	100047050	100 165 1651	
		040BW 008	214/155/	
	Mitec 9300	0407410010	150165 PRE	
	HiteU 5789	0407PA121	400155	
	Hitec 5970		P283516	
	4itec 9360	4014009	900/65	
		0407HOSEQ	1900 [PR]	

and the second s				HUOLO
Froduct Code	Product Name	Lot Number	Qty.	Location
Post	Hitec 708	0208 PA 053	227165	
Pre	Hitec 8053	81217Le	400lbs	
Pro	HiteCLHO	0368H00046	400165	
Pre	tlitec 5777	U208PA053	400155	
Post	HHEC 9325	1207 H0021	14016s	·
Vartral	Hitec 6456	BPQLe220	397169	
Partial	Hite: 6457	2703K	7	
PRE	Hitel 5739	0907 PA 20039	400165	
Pre	Miter w4/le	0967H0006	400165	
Post	Hitec 5774	(308PA081	Kesibs	
PR	Hitec 5724	0304R4080	400/65	
Post	Mitrc 5414	6108PA02(177165	-
P057	Hidec 1275	01045 A 0002	151165	
Post	Hitec 1275	U108 SA002	1631/5	
109	M140c 5714	ULOSPACIL	177165	
Rust	Hitec 5774	0308 PA081	210/05	
Pre	Hitec 5774	030884041	400165	
Rost	Miter, 9300	120240038	153/65	
Post	Hitec 9300	170740038	KAY 1/25	
Partial	HItec 6457	2272K	3111/2	
Pre	41/tec4103 V	PCDOHFUPO	200165	
Post One	HITEC9325	120740021	172 lbs	
UW	Hitel 9325	100740018	400165	
Post.	HARC 9325	1007 40018	115165	
Post	HITOC 5714	0107PAU27	125/69	
Rost	00 41 Hec 5404	0208PA 053	190/65	
000	Hitec 5750	0108PA035	400/65	
400	HIPEC 5721 V	020854054	400165	
	29/ 680 4129			

EPAPA001000866

H004

Product Code	Product Name	Lot Number	Qty.	Location
		-	Qty.	1
Post	H-5724	6407PA143	1	W+170
He	H-9300	OUD 7H0010		
fre	H-5710	0407 PA143	1	
foc	17-5708H	0401PA134	1	
Post	H-5751	050700055	1	
Post	H-7411- \$	190000 401850	j	wt. 186
Post	H-5785	0507PA152	1	WIRLA
Past	17-5789	0577717152	(4115
Pre	H- 5751	05070035	1	
Post	H. 5708	04078A144	<u> </u>	w. 111
Post	1+- 9300	040740009	<u>\</u>	W+ 188
Post	H- 5777	04075 WOZZ		W1-175
Post	17-2777	040756022)	wt. 139
Dre	17-5771	0407 PA145	[
Post	H-5708	040784144	l	w1:100
Pre	H-5708	04078ALUU	\	
Pre	H-5788	0507PA149	(·
Pre	H-5789	0507PA 152)	
Post	H-7411 8	090000401850)	W1-161
P057	H-5751	D-0910.035	1	ut 204
PSP	H-6431	05071+0011	1	
Pre	4-5788	0407PA 144	(
POST	H-9300	0407170009	1	ut. 169
Post	H-5724	0407PA145		at 168
	1			
				4.
			1	



63399 Hwy 51 N Roseland, LA 70456

|--|

Please Confirm Acceptance of Order to

JOHN M. PIERCE

Phone: (985)748-9687 Fax: (985)748-3004

TO:

BIG 4 TRUCKING

Order/PO#:

P. O.# 521577

Weight

96 DRUMS of Line Flush

Pick-up:

C. E. S. 2420 South Gulf Freeway PORT ARTHUR,TX.

Contact - KIM @ 713-676-1460

STARTED FINISHED REASONS FOR DELAY

Scheduled APPT.
TIME

LOADING LOADING

1/12/2009 MONDAY

LOADED BY:

Deliver To:

SMITTY'S SUPPLY INC. 63399 HWY. 51 ROSELAND,LA. 70456

Notes:

Attach packing slip to last pallet

Jere not #

1500 - 96 - 94 - 94





63399 Hwy 51 N Roseland, LA 70456

Delivery				Please Confirm Acceptance of Order to JOHN M. PIERCE Phone: (985)748-9687 Fax: (985)748-3004	
TO:	BIG 4 TR	UCKIN	G		
Order/PO #:	P. O.#	52157	0		
Weight	96 DRUN	/IS			
Pick-up:			PORT	C. E. S. uth Gulf Freeway ARTHUR,TX. IM @ 713-676-1460	
Scheduled APPT.		STARTED	FINISHED	REASONS FOR DELAY	
TIME		LOADING	LOADING		
1/9/2009	FRIDAY				
				LOADED BY:	
Deliver To:	SMITTY'S SUPPLY INC. 63399 HWY. 51 ROSELAND,LA. 70456				
Notes:	Attach pa	cking s	lip to la	ist pallet	

STRAIGHT BILL OF LADING - SHORT FORM ORIGINAL - NOT NEGOTIABLE

Shippers #: 011509A Page: 1 of 1 01/15/09 Date:

Route: via

Originating Carrier Estes or Subcontractor **Delivering Carrier** Estes or Subcontractor

Container Number (s)

1780742 Seal Number (s)

Received, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, at the property described below in apparent good order, except as noted (contents and conditions of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or Street Address of Consignee for Purposes of Notification Only)

5 GAILS

Consignee:

CES

00 Y

2420 South Gulfway Drive Port Arthur, TX 77641

Attn: Port Arthur Receptionist

713-676-1460

Destination: Same

FROM:

Shipper:

AFTON CHEMICAL CORPORATION

501 MONSANTO AVENUE

Origin: SAUGET, IL 62201

Afton Sales Order #: 1105

Customer Purchase Order #: Line Material Quantity/ Η Descriptions & Instructions *Net Weight/ Item Code Sales Unit M *Gross Weight (Subject to Correction) NWT 30980 GWT 63740 0001 X N/A 1, 55 Gallon Environmentally Hazardous Substances, N.O.S., Drum (Alkylphenols), 9, NA3082, III (Marine Pollutant)

Overpacked 0002 Petroleum Products - Not Regulated for Transportation 0003 7 55 Gallon Petroleum Products - Not Regulated for Transportation **Drums** Overpacked

PETroleym Products - Not Kegylated For Trans Bill of Lading Weight Totals for All Items, All Pages LB NWT (Same a

LB GWT Above)

"Where the rates of any of the items listed are d value, he agreed or declared value of the proper specifically stated by the shipper to be not excer pound."	ty is hereby	Subject to Section 7 of conditions of shipment is to be delivered to the cor consignor, the consignor shall sign the shall not make delivery of this shipm other lawful charges.	signee without recourse on the	This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.
*If the shipments move between two ports by a carrier by water, the law requires that the Bill of Lading shall state whether it is Carrier's or Shipper's weight.			AL CORPORATION.	El om les
IF CHARGES ARE TO BE PREPAID, WRITE OR STAMP HERE "PREPAID"		SHELL GALLONAGE CAPACITY 6932		Signature
Mail revenue bills on prepaid Shipments to the address below.	to Verification in acc applicable Agreemer weighing and Inspec jurisdiction.	ordance with any out with Railroads or the		AGENT Jandslar

TRANSPORTATION EMERGENCY: CALL CHEMTREC 1-800-424-9300 or AFTON CHEMICAL 1-800-403-0044

STRAIGHT BILL OF LADING – SHORT FORM ORIGINAL – NOT NEGOTIABLE

Shippers #: 011509A Page: 1 of 1 Date: 01/15/09

Route: via

Originating Carrier
Estes or Subcontractor

Delivering Carrier
Estes or Subcontractor

Container Number (s)

Seal Number (s) 1780742

Received, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, at the property described below in apparent good order, except as noted (contents and conditions of packages unknown), marked, consigned, and destined as indicated below, which said earlier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each parry at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the

applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

 $T\Omega$

(Mail or Street Address of Consignee for Purposes of Notification Only)

Consignee:

CES

2420 South Gulfway Drive Port Arthur, TX 77641 Attn: Port Arthur Receptionist

713-676-1460

Destination: Same

FROM:

Shipper:

AFTON CHEMICAL CORPORATION 501 MONSANTO AVENUE

Origin: SAUGET, IL 62201

Afton Sales Order #: 1105

Customer Purchase Order # Line Material Quantity/ H Descriptions & Instructions *Net Weight/ *Gross Weight Item Code Sales Unit M (Subject to Correction) NWT 30986 GWT 63740 0001 X N/A 1, 55 Gallon Environmentally Hazardous Substances, N.O.S., Drum (Alkylphenols), 9, NA3082, III (Marine Pollutant) Overpacked 0002 Petroleum Products - Not Regulated for Transportation 0003 Petroleum Products - Not Regulated for Transportation Overpacked 5 GAILON PETroleym Products - NOT Regulated For Trans:
Bill of Lading Weight Totals for All Items, All Pages LB NWT (Same as LB GWT Above)

			9	,
"Where the rates of any of the items listed are dependent on released value, he agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding 1300 cents per pound."		Subject to Section 7 of conditions of shipment is to be delivered to the cor- consignor, the consignor shall sign the shall not make delivery of this shipm other lawful charges.	signee without recourse on the	This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.
"If the shipments move between two ports by a carrier by water, the law requires that the Bill of Lading shall state whether it is Carrier's or Shipper's weight.		AFTON CHEMICAL CORPORATION.		St om les
IF CHARGES ARE TO BE PREPAID, WRITE OR STAMP HERE "PREPAID"		SHELL GALLONAGE CAPACITY		Signature
		6932		
Mail revenue bills on prepaid Shipments to the address below.	to Verification in acc	cordance with any It with Railroads or the	TURE OF CONSIGNOR compliance with Tariff 1000 and supplements reissues	Lale Elan
	PER	IPPER: AFTON CHEMICAL	CORPORATION.	AGENT LANCISTAR

TRANSPORTATION EMERGENCY: CALL CHEMTREC 1-800-424-9300 or AFTON CHEMICAL 1-800-403-0044

						T
	Hitec Product	Net				SHIPPER (Specific
	D (unless otherwise	Weight	Flush	Delivery		location that shipped
Drum ID#	noted)	(lbs)	Drum?	Date	BOL#	drums)
134	521	40				
223	9325	194	V			
431	5785	383	,			
442	5456	380				
508	5715	300	7			
553	7411	392				
555	1275	400				
607	466	300				
572	1275	400				
544	521	400				
616	6423	400				·
619	9325	399				
623	9300	400				
638	3062	44				
645	6560	375				
649	6431	400				
657	6456	399				
1609	686	365				
1610	686	365				
1611	686	365				
1612	686	365				
1662	686	365				
1663	686	345				
1664	686	345				
1665	686	345				
1666	686	365				
1667	686	365				
1668	686	365				
1661	686	365				
1669	686	365				
1670 1671 1672	686 686 686 686	365 365 365 365 365				
1671	484	365				
1672	686	365				
627	4103	400				
1674	059	399				
1678	266 260	400 399 1/2 1/2				
1679	260	12			···	
1680	260 G19 A	24				
1698	G19A	*				
233	5788	161			- <u> </u>	
1693	511	161				
1675	511 4103	400				
1675	059	399				

Drum ID #	Hitec Product ID (unless otherwise noted)	Net Weight (Ibs)	Flush Drum?	Delivery Date	BOL#	SHIPPER (Specific location that shipped drums)
		<u> </u>	Diam:	Date	502.11	u.a.n.o,
728	FATTY Acid	127				
1300						
1301						
1324						
1326						
/33/						
1347						
1700	511	*				
1705	381	*				
1706	381	*				
1407	511	*				
1708	511	*				
1710	GPA	*				
1729						
1731	GPA	*				
1732	GPA	*				
1788	4103	414				
1736	GPA	*				
1733	619 A	*				
1758	686	*				
1259	686	* *				
12/2	686 686	*				
1761	15764	*				
1763	<u> \$86 _</u>	*		_		
1764	486	*				
1011	101	احقه				
1766	686	*				
1766	GPA	*				
1769 1773	TEC Gused 260	*				
1773	686	*				
1774	686 686 686 686 686 686 686 5708 466 5777 484	* * 408 368 368 * * * 381				
1775	686	*				
1776	686	*				
1781	5708	408				
1781 1785 1787	466	368				
1787	5777	368				
1790	484	*				
	672	*				
1762	672 15764 5747	*				
342	5747	381	У			
1807	648 WO	*				

	Hitec Product	Net				SHIPPER (Specific
	ID (unless otherwise	Weight	Flush	Delivery		location that shipped
Drum ID #	noted)	(lbs)	Drum?	Date	BOL#	drums)
1808	<u> </u>					
1000	TecGuneel 235		<u> </u>			
1011	WO	*		 		
1813	648 wo	*		 		
1834	Wo	*				
1893	672	403				
1928	672	403				
1929	672	403				
1938	5002	437				
1934	403 C	401				<u> </u>
2006	Tee Guard 530	443				
	TECGUARD 265	443				<u> </u>
2008	Techused 2105	443				
	Techand 265	443				
3001	5715	399				
3002	5715	399				
3003	5715	399				
3004	5715	399				
3005	5715	399				
3006	5715	399				
3007	5715	399				
300 8 3009	5715	399				
3009	5715	399				
3010	5715	399				
3011	5715	399			`	
3012	5715	399				
30/3	5715	399				
3014	5715	399		-		
3015	5715	399				
3016	5715	399				
2017	5715	399				
3018	5715 5715 5715 5715 5715	399				
30/9	5715	399				
30211	5715	799				
3021	5715	399		·		
3022	5715 5715 5715 5715 5715	299				
3023	5715	299			,	
3024	5312	399 399 399				
3025	5715	200				
3025 3026	5715	399				
20 22	5715 5715	377				
3027 3028	5715	399				
3027	5715 5715	327			· · · · · · · · · · · · · · · · · · ·	
3029 3030	5 +15	399 399 399				
<i>3030</i>	5715	399				

	Hitec Product	Net				SHIPPER (Specific
		Weight	Flush	Delivery		location that shipped
Drum ID #	ID (unless otherwise noted)	(lbs)	Drum?	Date	BOL#	drums)
			Digin:	Date	901"	4.411.5)
3031	5715	399				
30 32	5715	399				
3033	5715	399				
3034	5715	399				
3035	5715	399				
3036	5715	399				
30,37	5715	399				
3038	5715	399				
3039	5715	399				
3040	5715	399				
	5715	319				
3041		399				
3043	5715 5715	399				
3043	5715					
2277	3715					
3045	5415	O				
3046	5+15	399				
3047	3715	ناا				
3048	5715	399				
3049	5715	399				
3050	5715	399				
3052	5715	399				
3053	5715	399				
3054	575	399				
3055	5715	399				
3056	5715	399				
3057	5715	399				
3058	5715	399				
3059	5715	399				
3060	5715	399			:	
3061	5715	399				
3062	5715 5715 5715	300				
3061 3063 3063	5715	290	-			
3063 3061	5715 5715	300			····	
	5715	399				
3065 3066	3713	377				
3066 3067	5715 5715 5715 5715 5715 5715	327				
3067	5+15	277				
3068	5715 5715 5715 5715 5715	344				
3069 3070 3071	5715	399				
3070	5715	3991				
3041	5715	3991				
3072	5715	399				
3073	5715	399 399 399 399 399 399 399 399 399 399				
3074	5715 5715	399				
VV 7-11	9113	<u> </u>	1		<u></u>	

						Ţ
	Hitec Product	Net	Danid			SHIPPER (Specific
			Post Flush	Dolinom		location that shipped
	ID (unless otherwise		1	Delivery	2011	* · · · · · · · · · · · · · · · · · · ·
Drum ID#	noted)	(lbs)	Drum?	Date	BOL#	drums)
30.75	5715	399				
3076	5715	399				
3077	5715	399				
3078	6560	400				
3079	5710	400				
3080	1275	181				
		152				
	5710					
3082	5777	375				
12022	5+10	150	<u>,</u>			
3084	5777	15 F	<u> </u>			
3085	5777	141	Y			
3086	5708	108	У			
3087	5708	105	Y			
3088	1275	400				
3089	1275	196	V			
3090	5777 D	160	V			
3091	5777 D	112	V			
3093	8 m 2 A	400				
3094	5714	159				
3090	1139	207				
13047	1139					
3009		400	-,,			
3000	5714	135				
3098	5710	400				
3099	9325	210				
3100	5708	173				
3/01	5708	164	<u> </u>			
	5750	112	<u> </u>			
31041	7050	400				
3105	5708	400				
3106	5788	392				
3107	3062	200				
3105 3104 3108 3110 3111 3112 3113 3114	5708 5788 3062 5788 5710 6403 4103 5708	400 392 200 150 400	7			
3717	5710	400				
3111	6403	400				
311	77773	200				
3112	7100	000				
7112	2408	408				
31 14	Probable Law	155 152 400				
3/15	5785 H 6560 5785 H	152				
3116	6560	400	-			
3117	5785 H	243	Y			
3/15	1275	192	Ý		· .	
3118	1275 1275 5733	243 192 400				
3120	5733	400	+			
0,00	1 L72	100				

			1			
		Net				SHIPPER (Specific
	Hitec Product		Fl	D		
	ID (unless otherwise	Weight	Flush	Delivery	20: #	location that shipped
Drum ID#	noted)	(lbs)	Drum?	Date	BOL#	drums)
3121	1275	220	Y			
131 22	9300	400				
3123	4166	400				
3 24	1275	400				
3125	2411	HAA				
3126	5785 H	400				
3107			\/			
3 27	5785 H	159	<u> </u>			
	6703	400				
3/29	5785 H	143	У			
3 30	4103	200				
3 39 3 30 3 31 3 32 3 34 3 35	6560	400				
3132	5777	183	Y			
3133	5777	161	Y			
3134	5786	188	Ý			
3135	6431	400				
3136	5751	220	Y			
3/37	5786	182	Ý			
3138	5754	381	-		· · · · · · · · · · · · · · · · · · ·	
3 40	5754	249	7			
3 41	5754	280	V			
3 36 3 37 3 38 3 40 3 41 3 46 3 47 3 48	7411	12-1	- (-			
3,42	2411	156	-			
3148	7411	400				
31 32	7711				, <u></u>	
	466		~/		<u></u>	
	466	103				
3156	5751	237	Y			
	6560	400				
3)58	5788	110	Y			
3159	5788	85	<u> Y</u>			
3159	5756	169	Y			
3161	5756	155° 395°	Y			
3/62	552GP	395	•			
3/62 3/63 3/64	コナルー	399				
3164	552GP	116	Y			
3165	552GP 552GP 5777	129	\(\) \			
3177	5777	124	4			
3199	5777	135	-1 -			
3167	J T T T	100				<u> </u>
3169	9325	266 249 399			,	
2167	9325	244	Y			
31+8	6130	379			·····	
3167 3168 3169 3178 3179	6130	266 249 399 399 399				
3180	6130 6130 6130	399				
3/8/	6130	399			·	
~ <i> </i>	4.00 1					

	Hitec Product	Net				SHIPPER (Specific
	3	Weight	Flush	Delivery		location that shipped
Drum ID #	ID (unless otherwise noted)	(lbs)	Drum?	Date	BOL#	drums)
	<u> </u>		Diam:	Date	DQL#	1 urums)
3183	6130	399				
3183	61.30	399				
3184	6130	399				
3185	6130	399				
3/88	6130	399				
3202	GPA	403				
3203	GPA	403				
3701	GPA	403				-
3000	GPA	403				
3000						
3000	6130	399				
12001	6130	399				
3208	6130	399				
3209	6130	399				
3214	514	421				
3215	514	421				
3216	514	421				
32/7	514	421				
3218	GPA	421				
32/9	GPA	421				
3222	059	325				
32,23	GPA	325				
3224	GPA	325				
3725-	GPA	325				
3230		399				
32 37	1 1 1	399				
	2 -3 -3			<u> </u>		
	GTZ	403				<u> </u>
3235	029	403				
3240	514	4121				
3241	514	421				
3241 3242	514	42				
3243	5 14 5 14 6130 6130 6130 6130 6130 6130 514	421			·····	
3244	6/30	399				
3245	6130	399				
3241	6/30	399				
3247	1.130	399				
32 418	7.130	399				
32 40	1.120	399	~~~			
32 51	2111	2 26				
37 -	514	000				
20 20		421				
32 48 32 49 32 57 32 52 32 53 32 54	514	401				
2754	514	421				
3256	514 514 514	421 421 399 399 399 399 399 399 421 421 421 421				
3247 3248 3249 3257 3252 3253 3253 3254 3256	514	421				
					··········	·

	Hitec Product	Net				SHIPPER (Specific
	1		Flush	Delivery		location that shipped
l	ID (unless otherwise			•	BOL#	drums)
Drum ID #	noted)	(lbs)	Drum?	Date	50t#	urums)
3257	350	220				
3258	619	*				
3259	3478	*				
3265	6560	400				
3266	5774	141				
3267	5774	160	V			
3068	9300					
3269		186				
3269	9300	176	<u>y</u>			
00.10	9300	262				
3271	9300	400				
3272	5775	375			: 	
3273	PPD 500	400				
3274	7650	386				
327-5	PPD 500	200				
3276	(0560	400	· · · · · · · · · · · · · · · · · · ·			
3277	5786	388	· · · · · · · · · · · · · · · · · · ·			
3278	466	150	Y			
3281	3062	200				
	6456	400				
3284 3284	<u> </u>	192	Y			
3285	5714	400				
3286	5733	121	V			
3287		131	-3			
	5710		<u> </u>			
3288	1270	196				
3289	<u>5 + + 7 D</u>	151				
3290	5777 D	130	_У			
3291	57770	375				
3292	5777D	375				
3293	1275	180	Y			
3294	6416	180				
3295	5777	120	4			
3296	637	165	Ÿ			
3297	437	400		1		
	5777 637 637 637	120 165 400 164	─ ✓			
3298 3299 3250	5714	156				
2250	2114	106				
30111	7 111	11 4 4				
3264 3234	5714	400				
2034	672	403				
3300	7411	400				
3301	5708	177	Y			
33.02	7411	174	Y			
3303	7411	174	V			· — · · · · · · · · · · · · · · · · · ·
3304	466	400				
0507	700	700				

Drum ID #	Hitec Product ID (unless otherwise noted)	(lbs)	Flush Drum?	Delivery Date	BOL#	SHIPPER (Specific location that shipped drums)
3305	9300	276	У			
3306	5714	56	У			·
3307	5751	381				
3308	5708	222	У			
3309	1275	400				
33 10	5708	212	V			
3311	3062	200				
33 12	5708	106	V			
33/3	7-7-1	140	-			
33/3 33/4	5751 5751	143	- y			
3315		381	7			
	5751					+
	1275	400				
3323	5708	400				
3332	4103	200	77.			
3333 33335	5708	27	У			
	5708	400			 	
3340 3341	57770	110	Y			
33 4/	5777 D	100	У			
33 42	57770	375				
3343	7050	128	У		·····	
3344	3191	148	У			
3345	3191	140	<u> </u>		·	
3346	5739	400				·
3347	3191	390				
3351	335	432				
3360	672	158				
3361	672	403				
3368		220				
		275				
33 70		190				
23 Z/		275 190 162			78.33.31	
33 7/ 33 82 3383	335 335 386 388 388 388	400				
3387	335-	4100				
3404	388	421				
3404 3405	280	121				
32/01	200	421				
3406 3407 3408	380	421				
3/10t	(28)	421				
2708						
3409		415				
34/10		415				
34/11		415				
34 12 34 13		110				
3413		136				

	Hitec Product ID (unless otherwise	Net Weight	Flush	Delivery		SHIPPER (Specific location that shipped
Drum ID #	noted)	(lbs)	Drum?	Date	BOL#	drums)
3414		200				
3415		212				
3420	672	403				
34,21	612	403				
34/22	672	403				
3423	672	2001				
0701	378	434		·		
3432 3433						
32/25						
34/36						
32/37		· · · · · · · · · · · · · · · · · · ·				
3438						
3439						
3440			·			
344/						
34.42						
34413						
3777						
32/2//						
37/2/2						
3448			· ·			
3451						
3452						
3453						
3454						
34/55						
3456						
3437						
3459						
3460 3461 3462				,		
3467						
3463						
3466						
3467				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
3468					_	
3469						
34.70						
3471						

	Hitec Product 1D (unless otherwise	Net Weight	Flush	Delivery		SHIPPER (Specific location that shipped
Drum ID#	noted)	(lbs)	Drum?	Date	BOL#	drums)
3472						
34773						
34741						
3475						
34177						
3478						
3479						
3480						
34/81						
34/82						
34/83						
.34.85 .34.86						
3487						
3488						
3489						
3492						
3493						
3494						
3495						
3496						
3501			· · ·			
3502 3503						
30.03	<u> </u>					
3500						
3507						
3507						
• • • • • • • • • • • • • • • • • • • •						
3508 3509						
351/	·					
3511						
3512						
35 13 35 14						
3514	·					
3515						
35/6						
35/7	· · · · · · · · · · · · · · · · · · ·					
35/8	60071	CO C	.			
35 19 35 H	92271	500				
35 211	7 JUTH	500				
35 21 35 22	7 tot 1	500				
3522	9227A	500				

	Hitec Product	Net Weight	Flush	Delivery		SHIPPER (Specific location that shipped
Drum ID#	ID (unless otherwise noted)	(ibs)	Drum?	Date	BOL#	drums)
3523	9227A	500				
35,24	92274	500				
3525	5227D	500				
3526	9227 A	500				
35,27	9227 A	500				
3528	9227 A	500				
3551	5727	439				
3552	5727	439				
3553	5727	439				
3554	5727	439				
3555	5727	439				
3556	5727	439				
3557	5727	439				
3558	5727	439				
3559	5727	439				
3561	4995	448				
35/02	5727	439				
3563	5727	439				
3564	1919	448				
3565	1919	448				
3566	1919	448				
3567	1919	44/8				
3568	1919	448				
3569	1919	448				
3570	1919	448				
35 72	1919	448				
35 73	1919	448				
35 74	6431	436				
3575	6431	456				
3576	6431 6431	456				
25 ++	6431	456				
3578	6431	456				
35 +9	6431	456				
3580	6431	456				
3581 3582	6431	456 445 445 419				
3582	64211	445				
35 83	6421	4/4/5				
3584	5755	4/9				
35 85	521	478				
3586	5771	4/2				
3587	6421 J	445				
3586 3587 3588 3589	6560	439				
3589	6560	439				

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		Λ	eed	4	nis_	list
	Hitec Product	Net				SHIPPER (Specific
D 15 #	ID (unless otherwise noted)	Weight	Flush Drum?	Delivery Date	BOL#	location that shipped drums)
Drum ID#		(lbs)	Drum:	Date	BUL#	drums,
1808	TEC GLAVA 23					<u> </u>
1818	648 WO	XX \\	1			
18/34	WO	*				
1893	672	400/				
1938	6/19	403	-			
	10 to	400				
1954	403C	401				
2014	7000					
2015						
2016						
2018	,					
20 19						
2020						
2022						
20 23 20 24						
2025						
2026						
2027						
20,28						
20 30						
2031		·				
20.32						
<i>∂0 33</i> <i>∂0 34</i>						
20 34						
20.35						
2036		 				
2038						
2039				·		
2040						
2041						
2042		-				
2041 2042 2043 2044 2044	· ·					
2045						· .
2046						
2047						
2048						

Drum ID #	Hitec Product ID (unless otherwise noted)	Net Weight (Ibs)	Flush Drum?	Delivery Date	BOL#	SHIPPER (Specific location that shipped drums)
2049						
2050						
2051						
2052						
2053						
2054						
2055						
2056						
2057						
2058						
2059		· · · · · · · · · · · · · · · · · · ·				
2060						
2061					<u> </u>	
2063						
2063						
2065						
2066		·				
2067						
2068						
2069		-				
2070						
2071						
2072						
2073						
2074				· · · · · · · · · · · · · · · · · · ·		
2075						
2076						·
2077						
2077 2078 2079						
ZU / / !						
2080						
2080 2081 2083 2083 2084	+					
2/82					<u> </u>	
2085 2086 2087 2088 2089						·
2086						
2082						
2/1881						
2089					· ·	
2086 2087 2088 2089 2090 2091						
2091						

	Hitec Product ID (unless otherwise	Net Weight	Flush	Delivery		SHIPPER (Specific location that shipped
Drum ID#	noted)	(lbs)	Drum?	Date	BOL#	drums)
2092						
2/293						
2094						
2095						
2096		-				
2097						
2098						
2099						
2021				ļ		
-						
 			 			
			 			
					-	
	·					
					·	

DATE: 10/22/08 96.55 gal deums

Drum ID #	Hitec Product ID (unless otherwise noted)	Net Weight (lbs)	Flush Drum?	Delivery Date	BOL#	SHIPPER (Specific location that shipped drums)
22//9	356	4120	 			<u> </u>
227/		4/32	ļ			-
3349	343	485				
3350	510	432				
3351	335	432				
3352	348	485				
	348	1190				
3353		700				
3334	348	485				
3355	348	485				
33.56	510	145				
3357	510	437				
3358		485				
	510			· · · · · · · · · · · · · · · · · · ·		
3359	510	375				
3366	672	158				
3361	672	403				
3362	385	450				
3363	387	4/0.3				
3364		100				
33/5	G. P. A		 			
///	G.P.A	104				-
3366	G. P. A	403				
3367	G.P.A	400		,		
3368		220				
3369		275				
33 70		Tax				
3371		1/0				
		162				
3372	511	485				
33 73	511	485			: 	
33 74	511	485	-			
3345	511	485				
32 7/2	510	LIKK				
33 75 33 76 33 77 33 78 33 79 33 80 33 81	510 311 T 348	400				
1) 11	2/1	400				
33 78	278	400 390 318 400				
3379	510	:390				
33 80	$G \cdot P \cdot A$	318				
33 81	335	400				***
33 78 33 79 33 80 33 82 33 82 33 84	335	4/1/				**,
33 82 33 83	220	400				
2702	227	400				
1284	510 G·P·A 335 335 335 337	132				
33.85	516	419				
33 82 33 83 33 84 33 85 33 86 33 87 33 88	510 510 510 2370 2370	132 419 419				
3387	510	419 400 400				
33 88	2370	Unh				
1100	22 TV	700				
3389	2370	400		I		· .



Drum ID #	Hitec Product ID (unless otherwise noted)	Net Weight (lbs)	Flush Drum?	Delivery Date	BOL#	SHIPPER (Specific location that shipped drums)
3390	2370	400				
3391	2370	400				
3392	348	415			··	
3393	348	215				
3394	345	405				
3395	348	210				
3396	510	419				
3397	2317	419				
3398	2317	419				
3399	2317	280				
3400	2375 A	4152				
3461	2375 A	452				
3402	306	452				
3403	381	126				
3404	388	42				
3405	388	421				
3406	388	421				
3404	388	42				
3408		415				
3409		415				
3410 -		415				
3411		415				
3412		110				
3413		13/0				
3414		200				
3415		212				
3416	G.P.A	LITS				
3417	G.P.A	415				
3416 3419 3418 3419 3420 3421 3422 3423 3423 3424	G · P · A G · P · A G · P · A	403 403 403 403 403 403				
34 19	G. P. A	421				
3420	672	403	4			
3421	672 672 672 338 338 338 348 356 348 355 305 378	403				
3422	672	403				
3422	672	403			· · · · · · · · · · · · · · · · · · ·	
3/12/1	338	461 461 421 432 421		_		
34175	338	4161				
2/12/	2418	4191				
3429	301	1127				
3428	756	1121				
2/1/20	370	11211				
3429 3430	335	754				
3425 3426 3427 3427 3428 3429 3430 3430	205	401				
2481	378	434				

3368	Mineral Oil - 150 Solvent Neutral
	Mineral Oil - 150 Solvent Neutral
	Mineral Oil - 150 Solvent Neutral
3371	Mineral O.1-150 Solvent Neutral
3408	Specialty lubricant Additive
3409	Specialty lubeicout Additive
3410	Specialty lubeicont Additive
3411	Specialty lubricant Additive
3412	Mineral Oil - 150 Solvent Neutral
3413	Mineral Oil-150 Solvent Neutral
3414	Specialty lubricant Additive
3415	Specialty lubricant Additive
tampa and an analysis of the second s	
managada aya, ahaayaa ahaayaa ahaa ahaa ahaa ah	
kapangah manggan pengangan anggan pengangan kalaban sa dibina dan sampangan pengangan mendinggan mengan pengan	
ر المعادل من المعادل المعادل المعادل المعادل المعادل المعادل المعادل المعادل المعادل المعادل المعادل المعادل ا 	

		· ·					
	Hitec				Hitec		
	Product						
	ID (unless	Net			Product ID (unless		
	otherwise	Weight			otherwise	Net Weight	
Drum ID#	noted)	(lbs)	Post Flush?	Drum ID#	noted)	(lbs)	Post Flush?
35 90	521	441		3629	4103	200	
35-91	5751	381		3630	6457	399	
35 92	343	485	Y	3631	8053	400	
35 93	5750	399		3632	5714	125	У
35 GU	5+770	375	У	3633	6416	400	
3595	5708	408	Ý	3634	9300	179	7
3591	5708	408	ý	3635	5708	400	
35-GZ	6560	401		3/.3/.	9325	140	У
3508	1921	4117		31, 27	9225	400	
3590	57.39	4/11		3/20	9216	172	
3600	9300	164	<u> </u>	3639	9300	400	
3/1/	1411	400		2621	5710	241	У
3/60	9300	4/19	У	3670	57777		<u> </u>
2000		177	7	3641	57770	375	
3603	5714	144	7	34712	9300	148	
3609	1243	137	- Y	3643	5724	168	-
3605	3714	177		3644	9300	169	
2606	1275	163	<u> </u>	3645	5724	170	
3607	5774	188	У	3646	9300	400	
3608	5724	400		3647	5708	400	
3609	5774	400		3648	5708	100	<u>y</u>
3610	5774	210		36 49	5751	381	
36/1	5708	400		3650	5708	111	Y
3612	6421	408		3651	5724	400	
3613	343	197	7	3652	5777	139	
	5777D	375		3653	9300	188	
3615	6560	401		3653	3777	175	У
3616	1921	401	У	3655	5714	400	
36/7	521	441		3656	6560	400	
36/8	6431	400		3655 3654 3657 3658 3659	6560 15508	395	
3619	5708	400 400 400		3658	1919	4100	
3(02/)	6431	400		3659	5789	400	
3621	5710	400		3660	5777D	375	
7/22	57080	400		3/2/1	7411	400	
3/223	5789	400		3/1/2	5789 5777 D 7411 5708 5751 7411	400	
36211	5288	400		21 63	5751	204	
3/20	5750	400 216	У	3//11	21111	161	Υ
21.01	5200	150	- (, 	3660 3661 3662 3663 3664 3664	5751	248	Y
3/22	11151	159	7	2003	5751 7411	101	
3614 3615 3617 3617 3619 3621 3621 3624 3624 3624 3627 3627 3627	14109	397		3644	T411	186	
3690	475 t	399		3667	5777D	214	

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	Product				Product ID		
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	otherwise	Weight			otherwise	Net Weight	
Drum ID #		(lbs)	Post Flush?	Drum ID#	noted)	(lbs)	Post Flush?
3668	9300	148	Y				
3669	9300	159	У				
3670	57770	400					
3671	1921	400					
3672	4995	400					
3673	464	400	_				
3674	7050	386					
3675	1921	400					
3676	5788	400					
3677	9300	400					
3678	5724	399					
3679	8053	400	_		*		
36.80	5739	400					
3681	5708A	386					
3682	5750	408					
3683	9325	150					
3684	9325	139	<u> </u>				
3685	5774	261	<u>y</u>				
3686	5774	232	_ У				
3687	74/1	400					
3688	6560	400					
36 07	74/1	400					
3690	5747	380					
36							
10 de							
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36 36 36 36							
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	Product	Not			Product ID		
	ID (unless	Net			(unless	81-+34/-:	
_	otherwise				otherwise	Net Weight	
Drum ID #	noted)	(lbs)	Post Flush?			(lbs)	Post Flush?
3691	6403	400		3730	521	400	
3692	5710	219	У	3731	577+	211	<u>Y</u>
3693	9300	132	У	3732	5777	251	
3694	1275	400	·	3733	466	400	
3695	5708	131	У	37-34	521	74	Y
31.96	.521	168	7	3735	466	386	
3692	5708	250	Y	3736	5750	400	
3/98	521	131	Ý	37,37	7411	400	
2/99	5751	380		37-38	7411	400	······································
22/10	5747	398	\/	27 29	5251	220	
2211	5241	381		3731	521	130	
370/	1117			37.40		381	
2402	6431	400	<u> </u>	3771	5751		
3703	5708	219	- 3	3742	57084	386	
3704	5708	16+	- 7 -	3743	2754	225	
3705	521	119	У	3+44	5+54	176	<u> </u>
3706	521	10+	<u> </u>	3745	4411	15+	
3707	5750	220	У	3746	7411	150	у
3708	5750	225	<u> </u>	3747	5789	399	
3709	466	145	Y	3748	6560	400	
3710	466	165	У	3749	5777	168	Y
3711	57241	350	4	3750	5777	158	У
3712	5751	279	Y	3751	5708 A	162	À
37/3	1921	239	7	3752	2585	400	
37/4	5751	234	Ý	3753	5708A	179	Y
3715	521	400		3754 3755	6560	400	
27/1	5708	400		3255	464	400	
37/2	5789	138	V	3756	466	115	Y
3218	5789	138 167 400	- 	3752	5724	177	7
27/0	9300	400		3757 3758	466	177	-
37.91	1000	1412		3770	74(1	171	\
2721	9300	142	7	3759		171	
272/	1275	159	7, 1	3760 3761	5751	381	
STAL	1275	172		3161	6416	400	
3723	6421	400		3762	7411	235	Y
3724	5777 D	3+0		3763	5739	164	У
3725	5708 A	380		3764 3764 3765 3766	5739	153	7
3726	9325	400		3765	6560 5	400	
3727	6560	400		3766	5739	400	
3728	5708	400		2767	7411	400	
37/5 37/6 37/7 37/8 37/9 372/ 372/ 3729 3725 3725 3725 3727 3727	6416	400		3767	6403	400	
<u> </u>	J/4	100		3769	521	400 238	
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			ئے	3770	5754	400	

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	3482	1275	158		3084	5777	375	100	-
9	3491	7050	2HZ		<u> 3083</u>	5710	399		-
	3578	57770	189		<u> 3032</u>	511 +	375		-
	3/576	6560	400		5085	5777	375		-
	3250			L	3344	3191	399	No.	1
	3795	5777	2.2		3 345	3191	399	<u> </u>	4
4	3103	5750	3991		2343	3191	399		-
	3132	5777	375		34.18	7411	465	<u> </u>	1
	3133	5777	375		3479	7411	465	-	-
i	3432	521	- inf		3473	5708A	386		4
	3431	7050	350		3502	466	119		1/
	3466	1188	788		3317	5751	381		-
	3465	5777D	375		3310,	5751	381		-
	3453	5777	375		5316	3911	465	اسما	1
	5444	6560	401		3318	7411	465	<u></u>	1
	3443	5710	399		3495	5714	412		┨
X	3454	6560	401		3496	577712	375		-
	3146	7411	4105		35/5	57770	375		-
	3298	637	399		3514	5714	412	<i>w</i>	1
	3294	657	399		3,00	5708	408		┨
-	-3299	5714	412		3101	5708	408	- i	1
	3124	1275	454		3080	1275	454	<u> </u>	1
	3097	5714	412		3078	65603	403		-
	3094	5714	412	<u>,,,</u>	3481	5710	399		
	3095	139	425		3476	1285	767	i i i i i i i i i i i i i i i i i i i	•
	3439	5710	399		3461	3191	397 375	<u> </u>	1
ł	3440	5788	392 399		3462	5777D	373		1
	3458	5710	274		3499	7411	4657		•
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	350 5	8053b	425	<i>*</i>	3509	5777	375		1
ļ	2504	8053	425		3500	5777	375	1	-
	3506	8053	H25		3121	12.75			1
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3487 3487 3470 3488	5708 2585 2585 4560	408 123 115		<u> </u>		
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3567	1919	410		1730	637			9	
35W1	1919	H/O		1768	·	7.0		· ·	
35/10/10	1919	410		3450	5710	399		•	Life
3500	92274	463	ســـــــــــــــــــــــــــــــــــــ	3505	5111D	375		8	
13525	57770	412		333 8	9325	419		6	į
V3527	92274	463		8999	1275	454		of a	×
V 3528	9227A	463		3216	514	421			لامي
3510	5751	381		13215	514	 		1	th.
V3274	7050	386		3214	5)4	421			<i>)</i> *
13275	PPP560	200	<u> </u>	3217	614	7 4		*YZ	
13 13	PPD580	400		2447	85710			•	*.
12122	9300	419		3450	5777			. 0	
V3573	466	410	<i>)</i>	8825 3338	9325		**************************************	0	
V3572	1919	410		1815	b48	488		•	
13180	6130	399		35700	922 FA	463		í	
3181	630	399	1 7	3510	9227A	463	They		•
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13179	6130	399	*	13104	7050	386			
V3248	6130	399		3136	5751	384	1		
V3230	6130	399		3129	5785H	412			
13249	6130	399		3115	5785H	4/2	V	eri Constitution of the constitution of the co	
13231	6130	399		1217	9325	H19 W		9	
V3570	19/9	410	No Drag	987	5714	412	1.00 1.00	*	
3548	1919	410	•					R	.2
V35/69	1919	410						R	•
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13341	6130	399		 		,	·		•
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13244	6130	399 399	·		ļ				
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13183	6130	399		<u> </u>	<u> </u>				
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1 5440 3519.71	
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	Product	Not			Product ID		
	ID (unless	Net			(unless	Net Weight	-
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Drum ID #		(lbs)	Post Flush?	Drum ID#		(lbs)	Post Flush?
4000	5708			4042	4238		
4001	3191			4043	521		
4002	3191			4044	521		
4003	5708		di water	4045	5708		
4004	5.708			4046	9325		
4005	5714	4.5	3	4047	5788		
4006	5777			4048	4566		
4007	5708			4049	5788		سسسسن
4028	1275	(1) (1)		4050	57770		
400G	7411			4051	5708		
4010	12 75	4	en	4052	5700		1
4011	7411		1	4053	5747D		
4012	5788			MORTH	57770		3/
4013	343		3	4055	5708		
4014	343			4056	5777D		
4015	343			4057	5708		
4016	7050		au au	4058	1-1210		
4017	5747			4000	3062		
13017				2057			
4018	6560			4060	57770		
4019	5747		- V	4061	5756		
4020	5751			4062	5708		
4021	521			4063	5 141+		
4022	5750			4064	5708		
4023	5 708		•	4065	9300		
4024	9325			40de	5777D		
4025	5777			4007	5747		
4026	9325			2006	5777D	c)	
4027	31911			4069	5714		3
4028	5700		V	ムション	100	_	
4029	5710		اسرا	4071	5714		مسما
4030	5710 5710 5710 5708 5777			4072	5714 5714 5717 57770 41103		
4031	5708			40.73	57770		i
H1732	5777			4034	4103		
1 446 27	トココー			4072 4073 4073 4073 4075 4075	57770		
4024	2595			10-11	5714		
25	2580			1072	5700		
4034 4037 4037 4039 4039	2505			4077 4078	5708 5769 57854		
11027	2007			1010	5707		
4027	1503			4079	2 103 H		
40.50	2714			7020	10420		
4039	6560 5714			4081	19450 F 85 8153 8153		
4040	5714			4082	8153		
4041	5777D			યુગ્ર 83	8i53		



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	ID (unless	Net			Product ID (unless		
	otherwise	Weight			otherwise	Net Weight	
Drum ID #	1 1	(lbs)	Post Flush?	Drum ID#		(lbs)	Post Flush?
4084	8153			5026	5026 E	8153	
4005	8153			5027	5027K	8153	
4086	95 3A			5028	8153		
4687	9530	5/11		5029	8153		
4088	953A			5030	8153		
4089	953A			5031	8153		
4090	953A			5032	953A		
4091	953A		·	5033	953A		
4092	8153			5034	953A		
4693	8153			5035	952A		
4094	8153			5036.	3062		
4095	8153				3062		
4096	9534			5037 5038	3062		
4097	953A			5039	3067		
4098	953A			5040	1777		
4099	953A			5041	1272	7411	
5000	8153			5042	1272		
5001	8/53			5043	1275		
562	8/53			5044	3062		
5003	8/53			5045	3062		
5004	953A			3646	3062		
5005	953A			5047	2012		
5806	953A			5048	14113		
5007	953A			5049	7729		
5008	953A				5721		
5009				5050	3062 3062		
	953A			5051			
500	953A			5052	3062		
5011	6167			5053	3062		
5012	0173			5074	3062		
5019	953A 8153 8153 8153 8153			5050	201 2		
5019	3103			2056	2062		
5015	8133			5057	3062 3062 3062 3062 5747		
5012 5013 5014 5015 5016	2153			2058	2747		/
5017	X123			50)4	5747		
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5617 5018 5019 5020 5021	8/53 8/53 8/53 8/53 8/53 8/53 8/53			504	MARIA		V
5020	8123		8,	5062	385		
504	8153			5063	9325		
502z 502z 502z	8153			506H	385		
5043	8153			5065	385		
2024	8153 8153 8153 8153	`		5055 5056 5056 5050 5060 5060 5062 5063 5063 5064 5065 5064	466 385 9325 385 5526	<u>R</u>	
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5071 57770 6012 5780	
5072 6560 6013 5710A	
5073 466 6014 5739	
5074 7411 6015 5739	
5075 6431 6016 5783	
5076 5747 6017 5710A	
5077 5747 6018 5788	
5078 4103 (ab)9 1204	
5079 1280 10020 1204	
5080 5789 6021 1204	
5081 1280 - 6022 1204	
5082 1280 6023 7160 it	
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5685 3062 4026 5757	
5086 3062 6027 5755	
5087 6456 6028 5747	
5088 3/9/ 6029 5710A	
5089 1275 6030 5747	
5890 3062 6031 343	
5691 9300 6032 343	
5092 930	
5073 9325 6034 343	
5094 3062 6035 5747	
5095 3062 6036 5747	
70 7	
5097 3042 6038 5749	
5097 3062 6038 5747 5098 5785/1 \$ 6038 67605 5099 6560C 6040 65605 6000 8/53 6041 65605 6001 521 6042 65605 6002 3062 6043 5777 6003 3062 6044 5777	
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4087	953A			7029	m7187			
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4095	8153			7037	P2344			
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STRAIGHT BILL OF LADING – SHORT FORM ORIGINAL – NOT NEGOTIABLE

Shippers Number:

RET04 Page: 1 of 1

Date:01/07/09

Route: via

Originating Carrier

Delivering Carrier ESTES

Container Number (s)

Seal Number (s)

Received, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, at the property described below in apparent good order, except as noted (contents and conditions of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, every service to be performed hereuroder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Fight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: CES ENVIRONMENTAL SERVICES 2420 GULF WAY DRIVE PORT ARTHUR, TX 77641

FROM: Shipper:

RIVERS EDGE TERMINALS 1350 WEST FOURTH STREET

(Mail or Street Address of Consignee for Purposes of Notification Only)

Origin: MADISON, IL 62060

Customer Purchase Order #: RET-4

Line Item	Material Code	Quantity/ Sales Unit	H M	Descriptions & Instructions	*Net Weight/ *Gross Weight (Subject to Correction)
0001	014292	52 Drums		HITEC 7160D Lot# 2104146000 TRANSPORTATION REGULATORY TEXT:	23,244 LB GWT
				Bill of Lading Weight Totals for All Items, All Pages	23,244 LB GWT

"Where the rates of any of the items listed are dependent on released value, he agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding 1300 cents per pound." Subject to Section 7 of conditions of applicable bills of lading. If this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement. The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department *If the shipments move between two ports by a carrier by water, the law requires that the Bill of Lading shall state whether it is Carrier's or Shipper's weight. IF CHARGES ARE TO BE PREPAID, WRITE OR STAMP HERE SHELL GALLONAGE "PREPAID CAPACITY This shipment is correctly described subject to Verification in accordance with any applicable Agreement with Railroads or the weighing and Mail revenue bills on prepaid Shipments to the address below SIGNATURE OF CONSIGNOR Outage in compliance with Tariff No. BOE6000 and supplements Inspection Bureau having jurisdiction. Thereto or reissues thereof AGENT SHIPPER: PER: PER

TRANSPORTATION EMERGENCY: CALL CHEMTREC 1-800-424-9300 or Afton 1-800-403-0044

STRAIGHT BILL OF LADING - SHORT FORM ORIGINAL - NOT NEGOTIABLE

Shippers #: 010709A 1 of 1 Page: Date: 01/07/09

Route: via

Originating Carrier Estes or Subcontractor **Delivering Carrier**

Estes

Container Number (s)

Seal Number (s)

Received, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, at the property described below in apparent good order, except as noted (contents and conditions of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or Street Address of Consignee for Purposes of Notification Only)

Consignee:

CES

2420 South Gulfway Drive Port Arthur, TX 77641

Attn: Port Arthur Receptionist

713-676-1460

Destination: Same

FROM:

Shipper:

AFTON CHEMICAL CORPORATION

501 MONSANTO AVENUE

Origin: SAUGET, IL 62201 Afton Sales Order #: 010709A

Line	Material	Quantity/	Н	Descriptions & Instructions	*Net Weight/
Item	Code	Sales Unit	M	•	*Gross Weight (Subject to Correction)
0001	N/A	45, 55 Gallon Drums		Petroleum Products - Not Regulated for Transportation	NWT 41, 044 GWT
				Aut sons	

Bill of Lading Weight Totals for All Items, All Pages

LB NWT (Same as LB GWT Above)

"Where the rates of any of the items listed are dependent on released value, he agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding 1300 cents per

*If the shipments move between two ports by a carrier by water, the law requires that the Bill of Lading shall state whether it is Carrier's or Shipper's weight

IF CHARGES ARE TO BE PREPAID, WRITE OR

Subject to Section 7 of conditions of applicable bills of lading. If this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement. The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges

AFTON CHEMICAL CORPORATION.

STAMP HERE "PREPAID"

Mail revenue bills on prepaid

Shipments to the address below

SHELL GALLONAGE CAPACITY

6932

This shipment is correctly described subject

applicable Agreement with Railroads or the weighing and Inspection Bureau having

to Verification in accordance with any

SIGNATURE OF CONSIGNOR

Outage in compliance with Tariff No. BOE6000 and supplements Thereto or reissues thereof

SHIPPER: AFTON CHEMICAL CORPORATION.

PER

jurisdiction.

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

AGENT PER:

TRANSPORTATION EMERGENCY: CALL CHEMTREC 1-800-424-9300 or AFTON CHEMICAL 1-800-403-0044

/	10.CV

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	(unless otherwise noted)	(lbs)	Flush Drum:
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431	5785	383	
442	5456	380	
508	5715	300	У
553	7411	392	<u> </u>
555	1275	400	ļ
572	1275	400	
607	466	300	
616	6423	400	
627	4103	400	
638	3062	44	
645	6560	375	
649	6431	400	
657	6456	399	
728	fatty acid	127	
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1301	9300	153	У
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1675	59	399	
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1679	260	1/2	
1680	260	1/4	
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1700	511	*	
1706	381	*	
1707	511	*	
1708	511	*	
1710	GPA	*	
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	CDA	*	
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1732	GPA	*	
1735	619A	*	
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1781	5708	408	
1787	5777	368	
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664-5708 950-5777D 132-5710 1171-5777 1694-619 1696-619 1601-637
950-5777D 132-5710 1171-5777 1694-619 1696-619 1691-637 1673-637
950-5777D 132-5710 1171-5777 1694-619 1696-619 1696-619 1673-637 1673-637 1779-260
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2014	5708	408	
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1820 - Wash oil 1838 - Wash oil 1677 - 260

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3086	5708	108	Y
3088	1275	400	
3089	1275	196	Υ
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3096	1139	400	
3105	5708	400	
3107	3062	200	
3111	6403	400	
3112	4103	200	
3113	5708	408	
3114	TEC GUARD 260	155	Υ
3116	6560	400	
3119	1275	400	
3120	5733	400	

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3125	7411	400	L
3126	5785H	400	
3127	5785H	159	Υ
3128	6403	400	
3130	4103	200	
3131	6560	400	
3135	6431	400	
3138	5754	381	
3140	5754	249	Y
3141	5754	280	Υ
3148	7411	400	
3155	466	103	Y
3160	5756	169	Y
3161	5756	155	Y
3163	5724	399	
3166	5777	135	Y
3167	5777	135	Y
3188	6130	399	<u> </u>
3202	GPA	403	
3203	GPA	403	
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3205	GPA	403	
3206	6130	399	
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3209	6130	399	
3218	GPA	421	-
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3272	5775	375	
3276	6560	400	
3277	5786	388	
3281	3062	200	
3282	6456	400	
3284	5733	192	Y
3286	5733	121	Υ
3289	5777D	151	Y
3290	5777D	130	Υ
3291	5777D_	375	
3292	5777D	375	
3294	6416	406	
3297	637	400	
3300	7411	400	
3301	5708	177	Υ
3302	7411	174	Y
3303	7411	174	Y
3304	466	400	
3308	5708	222	Y
3311	3062	200	
3312	5708	106	Y
3323	5708	400	
3332	4103	200	
3333	5708	27	Y
3335	5708	400	
3346	5739	400	
3348	356	432	
3349	343	485	
3350	510	432	
3352	348	485	
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3354	348	485	
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3378	348	400	
3379	510	390	
3380	GPA	378	
3384	387	132	
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3393	348	215	
3394	240	405	
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3399	2317	280	
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3581	6431	456	
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3588	6560	439	
3589	6560	439	
3592	343	485	Υ
3593	5750	399	
3594	5770D	375	Υ
3595	5708	408	Υ
3596	5708	408	Υ
3597	6560	401	
3598	1921	412	
3599	5739	414	
3601	6416	400	
3603	5714	177	Υ
3604	1275	151	Υ
3605	5714	177	Υ
3606	1275	163	Υ
3607	5774	188	Υ
3608	5724	400	
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3613	343	197	Υ
3614	5777D	375	
3615	6560	401	
3616	1921	198	Y
3618	6431	400	
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3620	6431	400	
3622	5708A	400	
3627	6456	397	
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3635	5708	400	
3641	577D	375	
3643	5724	168	Υ
3645	5724	170	Y
3647	5708	400	
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3650	5708	111	Υ
3651	5724	400	
3652	5777	139	
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3655	5714	400	
3656	6560	400	
3657	15508	395	
3658	1919	400	
3660	5777D	375	
3661	7411	400	
3662	5708	227	
3667	5777D	214	Υ
3670	5777D	400	
3671	1921	400	
3672	4995	400	
3673	466	400	
3674	7050	386	
3675	1921	400	
3678	5724	399	
3679	8053	400	
3680	5739	400	
3681	5708A	386	
3682	5750	408	
3685	5774	261	Υ
3686	5774	232	Υ
3687	7411	400	
3688	6560	400	
3687	7411	400	
3690	5747	380	
3691	6403	400	
3694	1275	400	
3695	5708	131	Y
3697	5708	250	Υ
3700	5747	398	Y
3701	5747	381	
3702	6431	400	
3703	5708	219	Υ
3704	5708	167	Υ
3707	5750	220	Υ
3708	5750	225	Υ
3709	466	145	Υ
3710	466	165	Υ
3711	5724	350	Υ
3713	1921	239	Υ
3716	5708	400	
3721	1275	159	Υ
3722	1275	172	Υ

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3723	6421	400	
3724	5777D	370	
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3728	5708	400	
3729	6416	400	
3731	5777	211	Υ
3732	5777	251	
3733	466	400	
3735	466	386	
3736	5750	400	
3737	7411	400	
3738	7411	400	
3742	5708A	386	
3743	5754	225	Y
3744	5754	196	Υ
3745	7411	157	Υ
3746	7411	150	Υ
3748	6560	400	
3749	5777	168	Υ
3750	5777	158	Υ
3751	5708A	162	Y
3752	2585	400	
3753	5708A	179	Υ
3754	6560	400	
3755	466	400	
3756	466	115	Υ
3757	5724	177	Υ
3758	466	108	Υ
3759	7411	171	Υ
3761	6416	400	
3762	7411	235	Υ
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	5069	552GP		Υ
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	5072	6560		
	5073	466		
	5074	7411	,	
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	5076	5747		Υ
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	5079	1280		Υ
	5080	5789		Y
	5081	1280		Υ
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	6009	5750	 	Υ
	6010	5788	<u> </u>	Y
	6011	5750	 	Y
	6012	5788		Y
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Burbank Barrel & Drum

NEW AND RECONDITIONED STEEL DRUMS

1402 Clinton Dr. • P.O. Box 234 • Galena Park, Texas 77547

Phone: 713-675-0941 • Fax: 713-451-8474

EMPTY DRUM CERTIFICATION

					2/17/05
TYPE OF	DRUM ORIGINATOR			DRUM TRANSPORTER	DRUM DESTINATION
DRUM	TYPE	TYPE	TYPE	QUANTITY OF DRUMS TRANSPORTED	QUANTITY OF DRUMS RECEIVED
\	Steel - Unlined			e	
TIGHT HEAD	Steel - Lined				
	Plastic *				
	Steel - Unlined				and the second s
OPEN HEAD	Steel - Lined				
	Plastic *				
OTHER (SPECIFY)			,		
		-			
TOTAL			2-105 In foliation, where the continuous and the foliation of the continuous and the foliation of the continuous and the contin	192	No.

We hereby certify that these drums are "empty" as that term is defined in the federal Environmental Protection Agency regulations, 40 CFR 261.7*, and that they have been properly prepared for transportation under the regulations of the U.S. Department of Transportation 49 CFR 173.29.**

DRUM ORIGINATOR	DRUM TRANSPORTER	DRUM DESTINATION
COMPANY / FACILITY (ES FWA)R	COMPANY BAD	COMPANY
REPRESENTATIVE'S NAME (PRINT)	DRIVER'S NAME (PRINT)	REPRESENTATIVE'S NAME (PRINT)
REPRESENTATIVE'S SIGNATURE	DRIVER'S SIGNATURE	REPRESENTATIVE'S SIGNATURE

* With regard to most regulated residues, EPA's 40 CFR 261.7 states: "A container . . . is empty if:

- (i) All wastes have been removed that can be removed using the practices commonly employed to remove materials from that type of container, e.g., pouring, pumping, and aspirating, and
- (ii) No more than 2.5 centimeters (one inch) of residue remain on the bottom of the container . . . "

EPA has explained this rule, saying that "one inch of waste material is an overriding constraint and may remain in an empty container only if it cannot be removed by normal means. The rationale for this provision is that there are certain tars and other extremely viscous materials that will remain in the container even after the container is emptied by normal means."

For residues of acutely hazardous products specifically listed by name (see back of form) in 40 CFR 26.1.33(e), EPA says the container is empty only "if the container . . . has been triple rinsed using a solvent capable of removing" the product, or has been cleaned by another method shown to achieve equivalent removal.

** DOT's 49 CFR 173.29 says that all openings on the empty container must be closed, and that all makings and labels must be in place as if the drum were full of its original contents. A DOT shipping paper is not required for transportation of a drum for reconditioning or private motor carrier. DOT placarding is not required for vehicles carrying empty containers.



NEW AND RECONDITIONED STEEL DRUMS 1402 Clinton Dr. P.O. Box 234 Galena Park, Texas 77547

Phone: 713-675-0941 • Fax: 713-451-8474

EMPTY DOLLM CERTIFICATION

	EMPIY	DRUM CE	RIFICATION		2111109
TYPE OF	DRUM ORIGINATOR			DRUM TRANSPORTER	DRUM DESTINATION
DRUM	TYPE	TYPE	TYPE	QUANTITY OF DRUMS TRANSPORTED	QUANTITY OF DRUMS RECEIVED
	Steel - Unlined				
TIGHT HEAD	Steel - Lined				
	Plastic			•	
	Steel - Unlined			•	•
OPEN HEAD	Steel - Lined	and function with the second second second	e je ne godenskej og fra	en en en en en en en en en en en en en e	Marie de la compania de la compania de la compania de la compania de la compania de la compania de la compania La compania de la compania de la compania de la compania de la compania de la compania de la compania de la co
	Plastic				
OTHER					
(SPECIFY)					
TOTAL					

We hereby certify that these drums are "empty" as that term is defined in the federal Environmental Protection Agency regulations, 40 CFR 261.7*, and that they have been properly prepared for transportation under the regulations of the U.S. Department of Transportation 49 CFR 173.29.**

DRUM ORIGINATOR	DRUM TRANSPORTER	DRUM DESTINATION
COMPANY / FACILITY	COMPANY BALD	COMPANY BRAD
REPRESENTATIVE'S NAME (PRINT)	DRIVER'S NAME (PRINT)	REPRESENTATIVE'S NAME (PRINT)
REPRESENTATIVE'S SIGNATURE	DRIVER'S SIGNATURE	REPRESENTATIVE'S SIGNATURE

With regard to most regulated residues, EPA's 40 CFR 261.7 states: "A container . . . is empty if:

- (i) All wastes have been removed that can be removed using the practices commonly employed to remove materials from that type of container, e.g., pouring, pumping, and aspirating, and
- (ii) No more than 2.5 centimeters (one inch) of residue remain on the bottom of the container . . ."

EPA has explained this rule, saying that "one inch of waste material is an overriding constraint and may remain in an empty container only if it cannot be removed by normal means. The rationale for this provision is that there are certain tars and other extremely viscous materials that will remain in the container even after the container is emptied by normal means."

For residues of acutely hazardous products specifically listed by name (see back of form) in 40 CFR 261.33(e), EPA says the container is empty only "if the container . . . has been triple rinsed using a solvent capable of removing" the product, or has been cleaned by another method shown to achieve equivalent removal.

** DOT's 49 CFR 173.29 says that all openings on the empty container must be closed, and that all makings and labels must be in place as if the drum were full of its original contents. A DOT shipping paper is not required for transportation of a drum for reconditioning or private motor carrier. DOT placarding is not required for vehicles carrying empty containers.

DECLARATION OF INSPECTION PRIOR TO BULK CARGO TRANSFER

VESSELS K.F.S. Tank Furivouental		
VESSELS CES Tank Environmental		
TRANSFER FACILITY Pa Vock		
THANSFER PACILITY 186 VOCK		
LOCATION Port Arthur		
	0.0 OFD 05.05.00	
The following list refers to requirements set forth in detail in 33 CFR 156.156	U & UFH 35.35-30	
The spaces adjacent to items on the list are provided to indicate that the de	talled requirements have been met.	
	DELIVERER RECEIV	ER
1. Communication System/Language Fluency (156.120)(g)(v)	RC AS	
2. Warning Signs and Red Warning Signals (35.35-30)	KC TO	,
3. Vessels Moorings (156.120(a))	<u> </u>	
l	RC NS	
	W H	
All the property of the control of t	K7 +2	
6. Transfer System; fixed piping (156.120(f))	Or Ho	
7. Overboard Discharges/Sea Suction Valves (156.120(h))	7 73	
8. Hoses or Loading Arms Condition (156.120(I))(156.170(c))	RC As	
9. Hoses; length and support (156.120(b)(c))	O/ AZ	,
10. Connections (156.130)	No.	
11. Discharge Containment Systems (156.120(m)(n))	RC 43	<u> </u>
12. Scuppers or Drains (156 120(o))	97 - A2,	
13. Emergency Shutdown (156.120(r))	W At	
14. Repair Work Authorization (35.35-30)	VI AG	
15. Boiler and Galley Fires Safety (35.35-30)	V	
16. Fires or Open Flames (35.35-30)		
17. Lighting (sunset to sunrise) (156.120(y))	10 Az	7
18. Safe Smoking Spaces (35.35-30)	<u> </u>	
19. Spill and Emergency Shutdown Procedures (156.120)(2) (156.125)		
20. Sufficient Personnel (156.120(s)(t))		<u> </u>
21. Transfer Conference (156.120(w))		
22. Agreement to Begin Transfer (156.120(x))		
I do portify that I have normanally inapported this facility or years with r	reference to the requirements set forth	in
I do certify that I have personally inspected this facility or vessel with re Section 35.35-30 and that opposite each of them I have indicated that		
Section 33.33-30 and that opposite each of them mave indicated that	the regulations have been complied w	iui.
PERSON IN CHARGE RECEIVING UNIT	TITLE TIME & C)ATF
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PERSON IN CHARGE DECIVERING UNIT	TITLE TIME & D	ATE
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RETAIN FOR 30 DAYS

co/DEC-INSP.WK1

Port No. 4773

Load 1 of 5 phorus Page 1012/

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5063	343			6081			
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Feed

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12-12-08 Inboond Foed
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72843 - Conoco - Acio
77378 - Kmco - SiB
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12-15-08
77919 - TARGA - LSNG - Redirected to KMTX 606
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77920 - TARGA - LSNG
1181
8/

	12-12-08 Inboond Ford
	TRYLLY - TARGA - LENG MAG
	77377 - KMCO - SIB
	12-13-08
	177843 - Conoco - Acid Sulf.
	17378 - Kmco - SIB
	12-14-08 - Sunday No Werk
	12-15-08
	17919 - TARGA - LSNg - Redirected to KMTX 606
	12-16-08
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No. 2	18002 - Total - NAP CAUSTIC
	12-17-08
	77920 - TARGA - LSNG
	12-17-08
J	77920-TARGA-LSNG
	R-20-08
	77921 - TARGA - LSNG
	12-23-08
\sim	78419- Conoco - ACID Sulf.
	12-26-08
	78495 - TARGA - LSNG
	12-29-08
	78635 - Conoco - Acid Sulf.
· ·	

CES Environmental Dispatch Board

Wednesday 12/31/2008



Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
78787	Gonzales Joe		297	271		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Vacuum truck	0600	1/2 Day
78786	Gonzales Joe		297	271		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Vacuum truck	2nd	1/2 Day
78788	Taylor Matthew		280	260		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Vacuum truck	0600	1/2 Day
78789	Taylor Matthew		280	260		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Vacuum truck	2nd	1/2 Day

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CES Environmental Dispatch Board

Tuesday 12/30/2008

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID		opotiisiiliikki kili Perikii too 19 vaniilii kalla mika wakumuu ya waxay ka					Description	Time	Length
78856		CANCEL				Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Vacuum truck		
78652	Sanchez Omar	DONE	2000	260		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Vacuum truck	0600	1/2 Day
78651	Sanchez Omar	DONE	2000	260		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Vacuum truck	2nd	1/2 Day
78653	Semien Peter	DONE	283	271		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Vacuum truck	0600	1/2 Day
78654	Semien Peter	DONE	283	271		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Vacuum truck	2nd	1/2 Day

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CES Environmental Dispatch Board

Monday 12/29/2008

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
78468	Gonzales Joe	DONE	297	271		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Vacuum truck	0600	1/2 Day
78467	Gonzales Joe	DONE	297	271		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Vacuum truck	2nd	1/2 Day
78466	Taylor Matthew	DONE	280	260		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Vacuum truck	0600	1/2 Day
78465	Taylor Matthew	DONE	280	260		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Drivers will need to go through safety video the first time they arrive onsite.	2nd	1/2 Day

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CES Environmental Dispatch Board

Tuesday 12/23/2008

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
78241	Gonzales Joe	DONE	297	271		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Drivers will need to go through safety video the first time they arrive onsite.	0600	1/2 Day
78242	Gonzales Joe	NOT ENOUGH TIME TO GET LOAD	297	271		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Drivers will need to go through safety video the first time they arrive onsite.	2nd	1/2 Day

Page 1 Of 1

Report Printed 12/31/2008 9:43:38 AM

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	Lacol!
	LOADS TO PACES
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	16mtx - 600 - 77769
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12-4	TARGA - LSNG - TROS
12-8	TARGA-LSNG-77442 want to BARGE#7
12-9	Kmco - 513 - 77372
12-10	Kmco-5113-77374
	Km 7 - 501 - 77689
	Km7x-606 77688
	TARGA - USNG - 77443
	Conoco - sulfunic Acip - 27621
	KMTX - 607 - 77367
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CES Environmental Dispatch Board

Friday 1/2/200**9**

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
78815	Semien Peter		283	271		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Vacuum truck	0600	1/2 Day
78813	Semien Peter		283	271		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Vacuum truck	2nd	1/2 Day
78814	Taylor Matthew		280	260		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Vacuum truck	0600	1/2 Day
78816	Taylor Matthew		280	260		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Vacuum truck	2nd	1/2 Day

Sulfidic Feed

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CES Environmental Dispatch Board

Monday 1/5/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID					,		Description	Time	Length
78820	Gonzales Joe		297	260		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Vacuum truck		
78819	Gonzales Joe		297	260		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Vacuum truck		
78818	Taylor Matthew		280	271		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Vacuum truck		
78817	Taylor Matthew		280	271		Valero Refining Co Texas	Pick up load of sulfidic caustic & haul to PACES - Vacuum truck		

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Report Printed 1/2/2009 7:27:12 AM



CES Environmental Port Arthur Dispatch Board

FOR: Wednesday 1/21/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
79846		CANCELLED				KMTEX	KMTEX AT 13:30pm go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank		
79843		CANCELLED				KMTEX	KMTEX AT 14:45pm go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank		
79842		CANCELLED				KMTEX	KMTEX AT 12:45PM go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank		
79636		**HOUSTON BOARD DELIVERING TO PACES**				RES	Pick up load of caustic & take to PACES		
79847		CANCELLED				KMTEX	KMTEX AT 16:00PM go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank		
79673		CANCELLED				CES Environmental Services - Port Arthur	Load caustic from barge & haul to Boise Cascade.		
79672		CANCELLED				CES Environmental Services - Port Arthur	Load caustic from barge & haul to Boise Cascade.		
79844	Crawford Carl		285	lt-638		KMTEX	KMTEX AT 08:30 AM go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank	0800 am	1/4 Day
79845	Crawford Carl		285	lt-638		KMTEX	KMTEX AT1100AM go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank	2nd	1/4 Day
79671	Crawford Carl		285	lt-638		CES Environmental Services - Port Arthur	Load caustic from barge & haul to Boise Cascade.	3rd	1/2 Day
79964	Denton William		2005	265		CES Environmental Services - Port Arthur	load wastewater and haul to np	0530	1/3 Day
79963	Denton William		2005	265		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
79962	Denton William		2005	265		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
79969	Dominguez Jose		278	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	0530	1/3 Day
79968	Dominguez Jose		278	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
79970	Dominguez Jose		278	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
79960	Frias Juan		2003	266		CES Environmental Services - Port Arthur	· load wastewater and haul to np	0530	1/3 Day

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79961	Frias Juan	2003	266	CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
79959	Frias Juan	2003	266	CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
79972	Mendoza Juan	2001	261	CES Environmental Services @ KMTEX	Go to KMTEX and load from tank 167 and haul to Peak in Shreveport. *PLEASE SEND A TRAINED DRIVER*	0800 am	Full Day
79965	Norton Jake	2006	269	CES Environmental Services - Port Arthur	load wastewater and haul to np	0530	1/3 Day
79966	Norton Jake	2006	269	CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
79967	Norton Jake	2006	269	CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
79840	Saylor Chris	296	It848	KMTEX	KMTEX AT 07:15am go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank	0630 am	1/4 Day
79841	Saylor Chris	296	it-848	KMTEX	KMTEX AT0945am go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank	2nd	1/4 Day
79670	Saylor Chris	296	lt-848	CES Environmental Services - Port Arthur	Load caustic from barge & haul to Boise Cascade.	3rd	1/2 Day
79765	Sittig Brent	273	It-1047	Total Petrochemicals Inc Port Arthur, TX	p/u Naphthenic caustic as directed, haul to PACES**MUST BE ON TIME	0600 am	1/3 Day
79905	Sittig Brent	273	lt10-47	Targa Midstream Services LP	load LSNG w/ammonia, Haul to CES PA	2nd	1/3 Day
79974	Wilson Kevin	2004	1264	KMTEX	load of reg w/w to np	0630 am	1/3 Day
79975	Wilson Kevin	2004	1264	КМТЕХ	load of reg w/w to np	2nd	1/3 Day
79976	Wilson Kevin	2004	1264	KMTEX	load of reg w/w to np	3rd	1/3 Day

Report Printed 1/21/2009 6:22:52 AM

Krissy Reese

From:

Brad Wood

Sent:

Wednesday, January 21, 2009 9:49 AM

To: Subject: Krissy Reese inbound color codes

Feedstock(sulfidic)

Raw stock (this will be orange)

DeRidder

Naphthenic(feed)

NaSH(final product) this is outbound

Brad Wood PACE5 Logistics Office-713-800-7956 Cell- 713-962-2018

bwood@cesenvironmental.com

Go Sooners

CES Environmental Port Arthur Dispatch Board

FOR: Thursday 1/22/2009

Job Note ID	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job Description	Start Time	Job Length
79677		**CANCELLED**				CES Environmental Services - Port Arthur	Load caustic from barge & haul to Boise Cascade.		
80079	Carrillo Rudy		282	239		CES Environmental Services - Port Arthur	load wastewater and haul to np	0700	1/3 Day
80080	Carrillo Rudy		282	239		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
80081	Carrillo Rudy		282	239		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
79674	Crawford Carl		285	lt-638		CES Environmental Services - Port Arthur	Load caustic from barge & haul to Boise Cascade.	0600 am	1/2 Day
79676	Crawford Carl		285	lt-638		CES Environmental Services - Port Arthur	Load caustic from barge & haul to Boise Cascade.	2nd	1/2 Day
80070	Denton William		2005	269		KMTEX	KMTEX AT 12:45PM go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank	1200 pm	1/4 Day
80072	Denton William		2005	269		КМТЕХ	KMTEX AT 14:45pm go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank	2nd	1/4 Day
80071	Dominguez Jose		278	261		КМТЕХ	KMTEX AT 13:30pm go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank	1230 pm	1/4 Day
80073	Dominguez Jose		278	261		КМТЕХ	KMTEX AT 16:00PM go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank	2nd	1/4 Day
80041	Frias Juan		2003	266		CES Environmental Services - Port Arthur	load wastewater and haul to np	0530 am	1/3 Day
80040	Frias Juan		2003	266		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
80039	Frias Juan		2003	266		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
79908	Mendoza Juan		2001	lt1047		CES Environmental Services - Port Arthur	Targa CBF redirect & haul to Boise Cascade.	0600 am	1/4 Day
79903	Mendoza Juan		2001	lt-1047		Targa Midstream Services LP	load CBF, Haul to CES PAwill redirect to deridder	2nd	3/4 Day
80084	Morales Rolando		298	1264		KMTEX	load of reg w/w to np		1/3 Day
80082	Morales Rolando		298	1264		KMTEX	load of reg w/w to np		1/3 Day
80083	Morales Rolando		298	1264		KMTEX	load of reg w/w to np		1/3 Day
80075	Norton Jake		2006	208		CES Environmental Services -	load wastewater and haul to np	0530 am	1/3 Day

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				Port Arthur		
80077	Norton Jake	2006	208	CES Environmental Services - load wastewater and haul to np Port Arthur	2nd	1/3 Day
80078	Norton Jake	2006	208	CES Environmental Services - load wastewater and haul to np Port Arthur	3rd	1/3 Day
80044	Salazar Alfonso	278	265	CES Environmental Services - load wastewater and haul to np Port Arthur	0530 am	1/3 Day
80042	Salazar Alfonso	279	265	CES Environmental Services - load wastewater and haul to np Port Arthur	2nd	1/3 Day
80043	Salazar Alfonso	279	265	CES Environmental Services - load wastewater and haul to np Port Arthur	3rd	1/3 Day
79675	Saylor Chris	296	lt848	CES Environmental Services - Load caustic from barge & haul to Boise Cascade. Port Arthur	06:00 am	1/2 Day
80089	Saylor Chris	296	lt-848	CES Environmental Services - Load WHITE LIQUOR from barge Port Arthur MARKINGS!!	2nd	1/2 Day
0	Sittig Brent	***OFF***				Full Day
0	Wilson Kevin	OFF				Full Day

Report Printed 1/21/2009 6:45:52 PM

CES Environmental Port Arthur Dispatch Board

FOR: Friday 1/23/2009

Job Note	Driver	Helper Truci	Trailer	Misc Equipment	Customer	Job	Start	Job
ID						Description	Time	Length
80195		auto Pieles des situates con como Para esta anticamento com mono Pieles com con como com com com esta de la co			CES Environmental Services - Port Arthur	Load WHITE LIQUOR from barge MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!		
79678	Crawford Carl	285	lt-638		CES Environmental Services - Port Arthur	Load caustic from barge & haul to Boise Cascade.	0700 am	1/2 Day
80194	Crawford Carl	285	lt-638		CES Environmental Services - Port Arthur	Load WHITE LIQUOR from barge MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	2nd	1/2 Day
0	Dominguez Jose	***OFF***						Full Day
80187	Frias Juan	2003	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	0700 am	1/3 Day
80186	Frias Juan	2003	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
80185	Frias Juan	2004	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
79980	Mendoza Juan	2001	261		CES Environmental Services @ KMTEX	Go to KMTEX and load from tank 167 and haul to Peak in Shreveport. *PLEASE SEND A TRAINED DRIVER*	0630	Full Day
80184	Norton Jake	2006	269		CES Environmental Services - Port Arthur	load wastewater and haul to np	0700 am	1/3 Day
80183	Norton Jake	2006	269		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
80182	Norton Jake	2006	269		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
79681	Saylor Chris	296	lt-848		CES Environmental Services - Port Arthur	Load caustic from barge & haul to Boise Cascade.	0700 am	1/2 Day
79680	Saylor Chris	296	lt-848		CES Environmental Services - Port Arthur	Load caustic from barge & haul to Boise Cascade.	2nd	1/2 Day
79906	Sittig Brent	273	lt-1047		Targa Midstream Services LP	load LSNG w/ammonia, Haul to CES PA	0600	1/3 Day
79679	Sittig Brent	273	LT- 1047		CES Environmental Services - Port Arthur	Load caustic from barge & haul to Boise Cascade.	2nd	1/3 Day
80178	Wilson Kevin	200-	1264		KMTEX	load of reg w/w to np	0630 am	1/3 Day
80179	Wilson Kevin	2004	1264		KMTEX	load of reg w/w to np	2nd	1/3 Day
80180	Wilson Kevin	2004	1264		KMTEX	load of reg w/w to np	3rd	1/3 Day

CES Environmental Port Arthur Dispatch Board

FOR: Monday 1/26/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
80137		**CANCELLED**				CES Environmental Services - Port Arthur	Load caustic from barge & haul to Boise Cascade.		*
80138		**CANCELLED**				CES Environmental Services - Port Arthur	Load caustic from barge & haul to Boise Cascade.		
80140		**CANCELLED**				CES Environmental Services - Port Arthur	Load caustic from barge & haul to Boise Cascade.		
79978		CANCELED				CES Environmental Services @ KMTEX	Go to KMTEX and load from tank 167 and haul to Peak in Shreveport. *PLEASE SEND A TRAINED DRIVER*		
80139		**CANCELLED**				CES Environmental Services - Port Arthur	Load caustic from barge & haul to Boise Cascade.		
80222 79	Crawford Carl	naph good	285/	lt-1047	y	Total Petrochemicals Inc.	p/u Naphthenic caustic as directed, haul to ? PACES**MUST BE ON TIME	0600 am	1/3 Day
80285	Dominguez Jose		278	266		CES Environmental Services - Port Arthur	load wastewater and haul to np	0630 am	1/3 Day
80283	Dominguez Jose		278	266		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
80284	Dominguez Jose		278	266		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
80288	Frias Juan		2003	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	0630 am	1/3 Day
80287	Frias Juan		2003	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
80286	Frias Juan		2003	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
80226	Mendoza Juan		2001	1264		KMTEX	load of reg w/w to np	0630 am	1/3 Day
80227	Mendoza Juan		2001	1264		KMTEX	load of reg w/w to np	2nd	1/3 Day
80228	Mendoza Juan		2001	1264		KMTEX	load of reg w/w to np	3rd	1/3 Day
80297	Sittig Brent	ACID	273	8177		Cenoce Phillips (Westlake LA)	pickup load of sulfuric acid from lake charles and haul to ces PA	0630 am	1/2 Day

CES Environmental Port Arthur Dispatch Board

FOR: Wednesday 1/28/2009

Job Note ID	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job Description	Start Time	Job Length
80322	Crawford Carl	IN ROUTE	285	1264		KMTEX	Haul 1 load gassy water to CES.	0600 am	1/2 Day
80323	Crawford Carl		285	1264		KMTEX	Haul 1 load gassy water to CES.	2nd	1/2 Day
,— 80421	Dominguez Jose	DONE	278	269		KMTEX	KMTEX AT 07:15am go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank) 0630 am	1/4 Day
80423	Dominguez Jose		278	269		КМТЕХ	KMTEX AT0945am go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank	2nd	1/4 Day
80425	Dominguez Jose		278	269		KMTEX	KMTEX AT 12:15PM go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the fagd tank	3rd	1/4 Day
80475	Frias Juan		2003	259		KMTEX	load product from 606 and bring to PACES for NaSH production		
80426	Frias Juan	DONE	2003	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	0630 am	1/3 Day
80427	Frias Juan	CANCELLED	2003	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
80428	Frias Juan	CANCELLED	2 003	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
80208	Mendoza Juan	IN ROUTE	2001	lt-638		CES Environmental Services - Port Arthur	Load WHITE LIQUOR from unit MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	0630 am	1/2 Day
80145	Mendoza Juan		2001	266	-	CES Environmental Services - Port Arthur	Load caustic from unit & haul to Boise Cascade.	2nd	1/2 Day
80431	Norton Jake	CANCELED	2006	266		CES Environmental Services - Port Arthur	· load wastewater and haul to np	0630 am	1/3 Day
80422	Norton Jake	DONE	2006	267		KMTEX	KMTEX AT 08:30 AM go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank) 0800 am	1/4 Day
80424	Norton Jake		2006	267		KMTEX	KMTEX AT1100AM go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank	2nd	1/4 Day
80430	Norton Jake	CANCELED	2006	266		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
80429	Norton Jake	CANCELED	2006	266		CES Environmental Services - Port Arthur	- load wastewater and haul to np	3rd	1/3 Day
80454	Sittig Brent	LOADING	273	LT-848		Sochem	PICK UP LOAD OF CAUSTIC FROM GONZALES, LA	0600 am	Full Day
80146	Wilson Kevin	IN ROUTE	2004	261		CES Environmental Services Port Arthur	- Load caustic from unit & haul to Boise Cascade.	0600 am	1/2 Day

2004 261

Targa Midstream Services LP load LSNG w/ammonia, Haul to CES PA

2nd 1/3 Day

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CES Environmental Port Arthur Dispatch Board

FOR: Thursday 1/29/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
80150	The second secon			lt-848		CES Environmental Services - Port Arthur	Load caustic from barge & haul to Boise Cascade.		
80361		HOUSTON DRIVER				CES Environmental Services @ KMTEX	Go to KMTEX and load from tank 181 and haul to Alvin *MUST BE @ KMTEX BY 8:30AM*		
80304	Crawford Carl		285	261		CES Environmental Services - Port Arthur	Targa CBF redirect & haul to Boise Cascade.	0530 am	1/4 Day
80303	Crawford Carl		285	261		Targa Midstream Services LP	load LSNG w/ammonia, Haul to CES PA	2nd	1/2 Day
80497	Dominguez Jose		278	269		KMTEX	KMTEX AT 08:30 AM go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank	0800 am	1/4 Day
80501	Dominguez Jose		278	269		КМТЕХ	KMTEX AT1100AM go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank	2nd	1/4 Day
80506	Dominguez Jose		278	269		KMTEX ĕ	KMTEX AT 13:30pm go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank	3rd	1/4 Day
80518	Frias Juan		2003	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	0630	1/3 Day
80517	Frias Juan		2003	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
80516	Frias Juan		2003	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
80209	Mendoza Juan		2001	lt-638		CES Environmental Services - Port Arthur	Load WHITE LIQUOR from barge MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	0630 am	1/2 Day
80151	Mendoza Juan		2001	lt-638		CES Environmental Services - Port Arthur	Load caustic from barge & haul to Boise Cascade.	2nd	1/2 Day
80515	Norton Jake		2006	266		CES Environmental Services - Port Arthur	load wastewater and haul to np	0630 am	1/3 Day
80514	Norton Jake		2006	266		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
80513	Norton Jake		2006	266		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
(- 80508 -)	Sittig Brent		273	267		KMTEX	KMTEX AT 14:45pm go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank		1/4 Day
80535	Sittig Brent		273	218		KMTEX	Haul box loaded with scrap metal and offload at site indicated by customer.	0630 am	1/3 Day
80532	Wilson Kevin		2004	lt-1047		KMTEX	load of reg w/w to np	0630 am	1/3 Day

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80533	:Vilson Kevin	2004	lt-1047	KMTEX	load of reg w/w to np	2nd	1/3 Day
80534	Wilson Kevin	2004	lt-1047	KMTEX	load of reg w/w to np	3rd	1/3 Day
£ 80503 /	Wood Brad	292	267	КМТЕХ	KMTEX AT 12:15PM go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank		
(80499)	Wood Brad	292	267	кмтех	KMTEX AT0945am go to Kmtex and load caustic from tank 501 and haul to ces port arthur for the feed tank		

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CES Environmental Port Arthur Dispatch Board

FOR: Friday 1/30/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID		-					Description	Time	Length
80154	THE STREET OF ALL MARKET WITH STREET STREET, WHITE STREET STREET, STRE	**CANCELLED**				CES Environmental Services - Port Arthur	Load caustic from barge & haul to Boise Cascade.		
80149		**CANCELLED**				CES Environmental Services - Port Arthur	Load caustic from barge & haul to Bolse Cascade.		
80362		**CANCELLED**				CES Environmental Services @ KMTEX	Go to KMTEX and load from tank 181 and haul to Alvin *MUST BE @ KMTEX BY 9:45AM*		
80504		DUPLICATE				KMTEX	KMTEX AT 12:15PM go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank		
80509		DELETE				KMTEX	KMTEX AT 08:30AM go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank		
80510		DUPLICATE				KMTEX	KMTEX AT 09:45AM go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank		
80495		**CANCELLED**				CES Environmental Services - Port Arthur	Load WHITE LIQUOR from barge MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!		
80141	Crawford Carl		285	261		CES Environmental Services - Port Arthur	Load caustic from barge & haul to Boise Cascade.	0700 am	1/2 Day
80302	Crawford Carl		285	261		Targa Midstream Services LP	load LSNG w/ammonia, Haul to CES PA	2nd	1/4 Day
0	Dominguez Jose	***OFF***							Full Day
0	Frias Juan	***OFF***							Full Day
80155	Mendoza Juan		2001	lt-638		CES Environmental Services - Port Arthur	Load caustic from barge & haul to Boise Cascade.	06:30 am	1/2 Day
80211	Mendoza Juan		2001	lt-638		CES Environmental Services - Port Arthur	Load WHITE LIQUOR from barge MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	2nd	1/2 Day
80523	Norton Jake		2006	266		CES Environmental Services - Port Arthur	load wastewater and haul to np	0630 am	1/3 Day
80521	Norton Jake		2006	266		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
80525	Norton Jake		2006	266		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
80615	Sittig Brent	ACID	273	lt-423		Conoco Phillips (Westlake LA)	pickup load of sulfuric acid from lake charles and haul to ces PA	0600 AM	1/2 Day
80554	Sittig Brent		285	1264		KMTEX	Haul 1 load gassy water from PACES to CES.	2nd	1/2 Day

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80585	Wilson Kevin	2004	LT- 1047	КМТЕХ	Haul 1 load gassy water to CES.	0800 am	1/2 Day
80586	Wilson Kevin	2004	lt-1047	КМТЕХ	Haul 1 load gassy water to CES.	2nd	1/2 Day
80524	Wood Brad	296	208	CES Environmental Services - Port Arthur	load wastewater and haul to np		1/3 Day
80520	Wood Brad	296	208	CES Environmental Services - Port Arthur	load wastewater and haul to np	0630 am	1/3 Day
80509	Wood Brad	296	267	KMTEX	KMTEX AT 08:30AM go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	0800 am	1/4 Day
80510	Wood Brad	296	267	KMTEX	KMTEX AT 09:45AM go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	2nd	1/4 Day
80519	Wood Brad	296	266	CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
80614	Wood Brad	296	266	KMTEX	KMTEX AT1100AM go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	3rd	1/4 Day
80504	Wood Brad	296	267	KMTEX	KMTEX AT 12:15PM go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	4th	1/4 Day

Report Printed 1/29/2009 8:01:26 PM

CES Environmental Port Arthur Dispatch Board

FOR: Tuesday 2/3/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
80645	Crawford Carl	DONE	278	LT- 1047		CES Environmental Services @ KMTEX	**be at kmtex by 8:30am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0800 AM	1/2 Day
MORAL	Physical Centres -	CANCELED	278	LT- 1047		CES Environmental Services @ KMTEX	Load WHITE LIQUOR from KMTEX tank 501 - Apt. time is 4pm MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	2nd	1/2 Day
80593	Dominguez Jose	DONE	278	266		KMTEX	Haul 1 load gassy water to CES.	0630 AM	1/2 Day
80767	Frias Juan	DONE	2003	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	0630 am	1/3 Day
80766	Frias Juan	DONE	2003	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
80765	Frias Juan	CANCELED	2003	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
80639	Mendoza Juan	DONE	2001	LT-638		CES Environmental Services @ KMTEX	**be at kmtex by 07:15am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0630 am	1/2 Day
80652	Mendoza Juan	DONE	2001	LT-638		CES Environmental Services @ KMTEX	**be at kmtex by 2:45pm** go to Kmtex and load caustic from tank 501 then haul to DeRidder	2nd	1/2 Day
80764	Norton Jake	DONE	2006	267		CES Environmental Services - Port Arthur	load wastewater and haul to np	0630 am	1/3 Day
80763	Norton Jake	DONE	2006	267		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
80762	Norton Jake	CANCELED	2006	267		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
80667	Sittig Brent	DONE	278	LT-848		Total Petrochemicals Inc Port Arthur, TX	p/u Naphthenic caustic as directed, haul to PACES**MUST BE ON TIME	0600 am	1/3 Day
80782	Sittig Brent	DONE	273	LT-848		CES Environmental Services - Port Arthur	haul loaded tri to KMTX and offload into tank 600	2nd	
80783	Sittig Brent	DONE	273	LT-848		CES Environmental Services - Port Arthur	haul loaded tri to KMTX and offload into tank 600	3rd	
80748	Wilson Kevin	DONE	2004	1264	-	KMTEX	load of reg w/w to np		
80750	Wilson Kevin	CANCELED	2004	1264		KMTEX	load of reg w/w to np		
80749	Wilson Kevin	DONE	2004	1264		KMTEX	load of reg w/w to np		
80809	Wilson Kevin	DONE	2004	1264		KMTEX	load of reg w/w to np/ preloaded at PACES	0530 am	1/4 Day

80786	Wood Brad	DONE	296	237	CES Environmental Services - haul 237 Kmtex loaded with nash product. Unload into Port Arthur tank 501	1/4 Day
80789	Wood Brad	DONE	296	261	CES Environmental Services - haul 261 to KMTX and offload into tank 501	1/4 Day
					Port Arthur	

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CES Environmental Port Arthur Dispatch Board

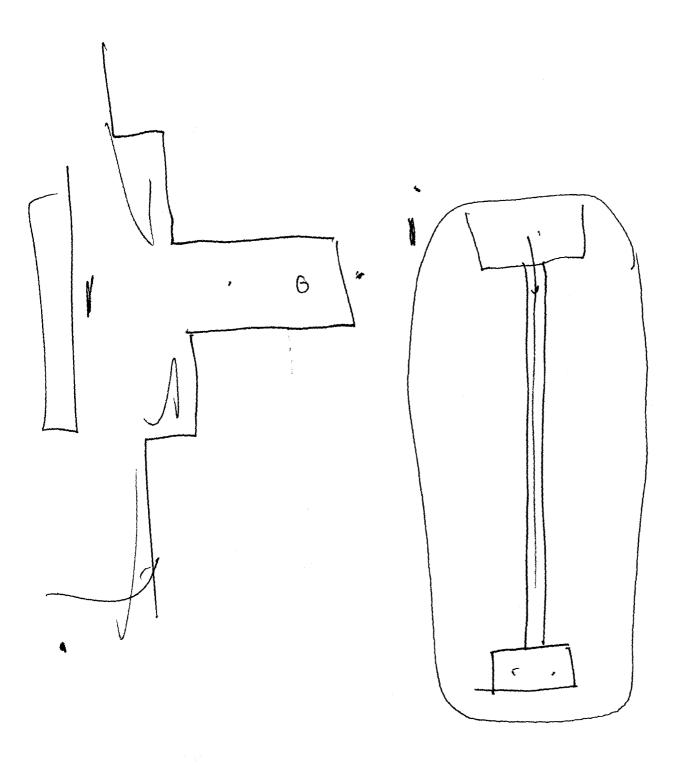
FOR: Wednesday 2/4/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
80910		DELETE				CES Environmental Services - Port Arthur	load wastewater and haul to np		
80927		outside transporter L&B	(Sochem	OF CAUSTIC FROM GONZALES, LA		
806687	Crawford Carl		285	LT- 1047		Total Petrochemicals Inc Port Arthur, TX	p/u Naphthenic caustic as directed, haul to PACES**MUST BE ON TIME	0600 am	1/4 Day
80851	Crawford Carl		285	LT- 1047		CES Environmental Services @ KMTEX	Load WHITE LIQUOR from KMTEX tank 501 - Apt. time is 11:00AM MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	2nd	1/2 Day
80594	Dominguez Jose		278	266		KMTEX	Haul 1 load gassy water to CES.	0630 am	1/2 Day
80646	Frias Juan		2003	- L T-848	267	CES Environmental Services @ KMTEX	**be at kmtex by 8:30am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0800 am	1/2 Day
80657	Frias Juan		2003	4.T-848	247	CES Environmental Services @ KMTEX	**be at kmtex by 4pm** go to Kmtex and load caustic from tank 501 then haul to DeRidder	2nd	1/2 Day
80640	Mendoza Juan		2001	LT-638		CES Environmental Services @ KMTEX	**be at kmtex by 07:15am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0630 AM	1/2 Day
80653	Mendoza Juan		2001	LT-638		CES Environmental Services @ KMTEX	**be at kmtex by 2:45pm** go to Kmtex and load caustic from tank 501 then haul to DeRidder	2nd	1/2 Day
80909	Norton Jake		2006	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	0630 am	1/3 Day
80908	Norton Jake		2006	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
80907	Norton Jake		2006	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
80878	Sittig Brent		273	261		Sochem	PICK UP LOAD OF CAUSTIC FROM GONZALES, LA must be at Sochem by 10:00AM	0400 am	Full Day
80924	Wilson Kevin		2004	1264		KMTEX	load of reg w/w to np	0530 am	1/3 Day
80661	Wilson Kevin		2004	267_	Dhal	CES Environmental Services @ KMTEX	Load WHITE LIQUOR from KMTEX tank 501 - Apt. time is 9:45am MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	2nd	1/2 Day
80923	Wood Brad		296	269		CES Environmental Services - Port Arthur	haul 269 to KMTX and offload into tank 501		1/4 Day

CES Environmental Port Arthur Dispatch Board

FOR: Friday 2/6/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
81045		DELETE			DELETE	Nederland Tank Wash	pick up 208 after being steamed and bring back to PACES	0600	
80642	Crawford Carl	IN ROUTE	285	269		CES Environmental Services @ KMTEX	**be at kmtex by 07:15am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0630 am	1/2 Day
80662	Crawford Carl		285	269		CES Environmental Services @ KMTEX	Load WHITE LIQUOR from KMTEX tank 501 - Apt. time is 2:45pm MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	2nd	1/2 Day
81021	Dominguez Jose		278	1264		KMTEX	Return load of gassy water to kmtex.	0600	1/2 Day
81048	Dominguez Jose		278	LT-423		CES Environmental Services - Port Arthur	Haul trailer LT-423 to Channel shipyard in Baytown and pick up caustic	2nd	1/2 Day
80825	Frias Juan	IN ROUTE	2003	255		KMTEX	Be onsite at 5am. pick up trailer and haul to US Ecology. Apt time is at 11am	0430 am	Full Day
81017	Mendoza Juan	take 266 back to Houston and check in with tank wash	2001	261		Sochem Solutions, Inc.	haul loaded trailer 261 to Temple Inland and offload at 10:00amtrailer is already loaded on PACES yard	0400 am	Full Day
81050	Norton Jake	DONE	2006	208		Nederland Tank Wash	pick up 208 after being steamed and bring back to PACES	0600 am	1/4 Day
81046	Norton Jake	IN ROUTE	2006	LT- 1047		CES Environmental Services - Port Arthur	pickup LT-1047 at Nederland Tank Wash and return to PACES	2nd	1/4 Day
80655	,	ineload for	2006	LT-638		CES Environmental Services @ KMTEX	**be at kmtex by 9:45am** go to Kmtex and load caustic from tank 501 then haul to CES Port Arhtur	3rd	1/4 Day
81043	Norton Jake		2006	268		CES Environmental Services - Port Arthur	haul 268 to KMTEX and offload into tank 606 at 11:00am	4th	1/4 Day
81012	Norton Jake		2006	LT-848		CES Environmental Services - Port Arthur	load wastewater and haul to np	5th	1/4 Day
80648	Sittig Brent	unloaded in route to paces	273	267		CES Environmental Services @ KMTEX	**be at kmtex by 8:30am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0800 am	1/2 Day
	Sittig Brent	PRELOAD ONLY DO NOT DELIVER	273	267		CES Environmental Services @ KMTEX	**be at kmtex by 4pm** go to Kmtex and load caustic from tank 501 then haul to DeRidder	2nd	1/2 Day
81018	Wilson Kevin	AT CUST.	2004	239		Sochem Solutions, Inc.	haul loaded trailer 239 to Temple Inland and offload at 10:00amtrailer is already loaded on PACES yard	0400 am	Full Day



CES Environmental Port Arthur Dispatch Board

FOR: Monday 2/9/2009

Job Note	Driver	Helper Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID						Description	Time	Length
⁶ 81058 →	Crawford Carl	2003	269		Total Petrochemicals Inc Port Arthur, TX	p/u Naphthenic caustic as directed, haul to PACES**MUST BE ON TIME	0600	1/4 Day
80900	Crawford Carl	285	269		CES Environmental Services @ KMTEX	Load WHITE LIQUOR from KMTEX tank 501 - Apt. time is 9:45am MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	2nd	3/4 Day
80891	Dominguez Jose	278	267		CES Environmental Services @ KMTEX	**be at kmtex by 8:30am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0800 am	1/2 Day
80903	Dominguez Jose	278	267		CES Environmental Services @ KMTEX	**be at kmtex by 4pm*** go to Kmtex and load caustic from tank 501 then haul to DeRidder	2nd	1/2 Day
81093	Frias Juan	2003	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	0630 am	1/3 Day
81092	Frias Juan	2003	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
81091	Frias Juan	2003	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
80885	Mendoza Juan	2001	LT-638		CES Environmental Services @ KMTEX	**be at kmtex by 07:15am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0630 am	1/2 Day
80879	Mendoza Juan	2001	LT-638		CES Environmental Services @ KMTEX	**be at kmtex by 2:45pm** go to Kmtex and load caustic from tank 501 then haul to DeRidder	2nd	1/2 Day
81090	Norton Jake	2006	LT- 1047		CES Environmental Services - Port Arthur	load wastewater and haul to np	0630 am	1/3 Day
81089)	Norton Jake	2006	LT- 1047		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
81009	Wilson Kevin	2004	LT-848		KMTEX	load of reg w/w to newpark	0630 am	1/3 Day
81022	Wilson Kevin	2004	LT-848		KMTEX	load of reg w/w to newpark	2nd	1/3 Day
81023	Wilson Kevin	2004	LT-848		KMTEX	load of reg w/w to newpark	3rd	1/3 Day

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CES Environmental Port Arthur Dispatch Board

FOR: Tuesday 2/10/2009

Job Note ID	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job Description	Start Time	Job Length
81146		CANCELED			istadas amadas Graup Arthur et Alexandra Colonia de Col	CES Environmental Services - Port Arthur	load wastewater and haul to np	04:30 am	1/3 Day
81145	a a see see a see a see a see a see a see a see a see a see a see a see a see a see a see a see a see a see a	CANCELED				CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
81147		CANCELED				CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
81144		CANCELED				CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
81148		CANCELED				CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
81059	Crawford Carl	DONE	285	269		Total Petrochemicals Inc Port Arthur, TX	p/u Naphthenic caustic as directed, haul to PACES**MUST BE ON TIME	0600 am	1/4 Day
80951	Crawford Carl	DONE	285	LT-423		CES Environmental Services @ KMTEX	Load WHITE LIQUOR from KMTEX tank 501 - Apt. time is 9:45am MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	2nd	1/2 Day
81150	Dominguez Jose	DONE	278	239		KMTEX	KMTEX AT 09:45AM go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	1ST	1/4 Day
81151	Dominguez Jose	DONE	278	269		KMTEX	KMTEX AT 12:15PM go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	2ND	1/4 Day
81189	Dominguez Jose	DONE	278	LT-848		KMTEX	load of reg w/w to newpark	3rd	1/4 Day
811547	Dominguez Jose	DONE	278	LT-848		KMTEX	KMTEX AT 16:00pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	4th	1/4 Day
80892	Garza Alfredo		289	267		CES Environmental Services @ KMTEX	**be at kmtex by 8:30am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	08:00 am	1/2 Day
81153 /	Garza Alfredo		289	267		KMTEX	KMTEX AT 14:45pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	2nd	1/4 Day
80886	Mendoza Juan	IN ROUTE	2001	LT-638		CES Environmental Services @ KMTEX	**be at kmtex by 07:15am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0630 am	1/2 Day
80880	Mendoza Juan		2001	LT-638		CES Environmental Services @ KMTEX	**be at kmtex by 2:45pm** go to Kmtex and load caustic from tank 501 then haul to DeRidder	2nd	1/2 Day
81149	Norton Jake	LOADED ON LINE	2006	261		KMTEX	KMTEX AT 07:15am go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the keed tank	0630 am	1/4 Day
81143	Norton Jake	IN ROUTE	2006	LT- 1047		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/4 Day

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(81152 ²)	Norton Jake		2006	268	KMTEX	KMTEX AT 13:30pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	3rd	1/4 Day
81168	Norian Jake	CANCELED	296	208	CES Environmental Services - Port Arthur	haul 208 to KMTEX and offload into tank 606 at 08:30am	>4th	1/4 Day
81222	Sittig Brent	DONE	273	208	Nederland Tank Wash	haul trailer 208 to tank wash to be steamed 175 degrees		
81127	Sittig Brent	LOADED ON LINE	273	8177	Conoco Phillips (Westlake LA)	pickup load of sulfuric acid from lake charles and haul to ces PA	0530 am	1/2 Day
80897	Sittig Brent	IN ROUTE TO LOAD	173	LT- 1047	CES Environmental Services @ KMTEX	Load WHITE LIQUOR from KMTEX tank 501 - Apt. time is 4pm MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	2nd	1/2 Day
81157	Wilson Kevin	DONE	2004	1264	KMTEX	load of reg w/w to newpark	0600 am	1/3 Day
81158	Wilson Kevin	DONE	2004	1264	KMTEX	load of reg w/w to newpark	2nd	1/3 Day
81159	Wilson Kevin	CANCEL	2004	1264	KMTEX	load of reg w/w to newpark	3rd	1/3 Day

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2420 S. Adfway Dr. 5abre Pass X 77655

CES Environmental Port Arthur Dispatch Board

FOR: Wednesday 2/11/2009

Job Note	Driver	Helper Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID						Description	Time	Length
80904	Crawford Carl	285	268 443	3	CES Environmental Services @ KMTEX	**be at kmtex by 4pm*** go to Kmtex and load caustic from tank 501 then haul to DeRidder		
80893	Crawford Carl	285	268. Lf-47.	3	CES Environmental Services @ KMTEX	**be at kmtex by 8:30am** go to Kmtex and load caustic from tank 501 then haul to DeRidder		
81060	Dominguez Jose	278	269		Total Petrochemicals Inc Port Arthur, TX	p/u Naphthenic caustic as directed, haul to PACES**MUST BE ON TIME		
80901	Dominguez Jose	278	269 Qlel		CES Environmental Services @ KMTEX	Load WHITE LIQUOR from KMTEX tank 501 - Apt. time is 9:45am MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!		
81209	Frias Juan	2003	239 - 420		CES Environmental Services - Port Arthur	load wastewater and haul to np		
81207	Frias Juan	2003	-239 470		CES Environmental Services - Port Arthur	load wastewater and haul to np		
81208	Frias Juan	2003	239 470		CES Environmental Services - Port Arthur	load wastewater and haul to np		
80887	Mendoza Juan	278	261 L+1638		CES Environmental Services @ KMTEX	**be at kmtex by 07:15am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0630 am	1/2 Day
80881	Mendoza Juan	2001	261 Lt-le38		CES Environmental Services @ KMTEX	**be at kmtex by 2:45pm** go to Kmtex and load caustic from tank 501 then haul to DeRidder	2nd	1/2 Day
81206	Norton Jake	2006	-267 Lt-104	l	CES Environmental Services - Port Arthur	load wastewater and haul to np		
81205	Norton Jake	2006	267 LY-1047	1	CES Environmental Services - Port Arthur	load wastewater and haul to np		
81204	Norton Jake	2006	267 Lt-104"	\	CES Environmental Services - Port Arthur	load wastewater and haul to np		
81224	Sittig Brent	273	208		Nederland Tank Wash	pick-up 208 and bring back to PACES insure temp is 175		
81254	Sittig Brent	273	208 (Pancel	CES Environmental Services - Port Arthur	haul 208 to KMTEX and offload into tank 606 at 08:30am	2nd	1/4 Day
81255	Sittig Brent	273	208	Israce)	CES Environmental Services - Port Arthur	haul 208 to KMTEX and offload into tank 606 at 09:45am	3rd	1/4 Day
81169	Wilson Kevin	2004	255		KMTEX	load of reg w/w to newpark	0600 am	1/3 Day
81170	Wilson Kevin	2004	255		KMTEX	load of reg w/w to newpark	2nd	1/3 Day
81171	Wilson Kevin	2004	255		KMTEX	load of reg w/w to newpark	3rd	1/3 Day

CES Environmental Port Arthur Dispatch Board

FOR: Tuesday 2/17/2009

Job Note ID	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job Description	Start Time	Job Length
81437		CANCELED	2004	258		CES Environmental Services - Port Arthur		2nd	1/3 Day
81440	Dominguez Jose	DONE	278	420		CES Environmental Services - Port Arthur	load wastewater and haul to np	05:30 am	1/3 Day
81439	Dominguez Jose	DONE	278	258		CES Environmental Services - Port Arthur	load wastewater and haul to np	0700	1/3 Day
81441	Dominguez Jose	DONE	278	258		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
81438	Dominguez Jose	CANCELED	278	258	*	CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
81442	Dominguez Jose	CANCEL	278	258		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
81583	Frias Juan	DONE	2003	1264		CES Environmental Services - Port Arthur	load wastewater and haul to np	0530	1/4 Day
81584	Frias Juan	CANCEL	2003	1264		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/4 Day
81585	Frias Juan	DONE	2003	268		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/4 Day
81586	Frias Juan	CANCEL	2003	1264		CES Environmental Services - Port Arthur	load wastewater and haul to np	4th	1/4 Day
81572	Garza Alfredo	DONE	289	267		KMTEX	load of reg w/w to newpark	0630	1/3 Day
81573	Garza Alfredo	DONE	289	267		KMTEX	load of reg w/w to newpark	2nd	1/3 Day
81575	Garza Alfredo	DONE	289	267		KMTEX	load of reg w/w to newpark	3rd	1/3 Day
81399	Mendoza Juan	DONE	2001	261		CES Environmental Services @ KMTEX	**be at kmtex by 9:45am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0630	1/2 Day
81406	Mendoza Juan	DONE	2001	261		CES Environmental Services @ KMTEX	Load WHITE LIQUOR from KMTEX tank 501 - Apt. time is 4:00pm MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	2nd	1/2 Day
81530	Mendoza Juan	DONE (NEEDS TO BE OFFLOADED TODAY)	2001	208	TAKE BACK TO TANK WASH	CES Environmental Services - Port Arthur	pickup 208 from nederland tankwash and reteurn to glen for valve repairs	2nd	1/3 Day
81488	Norton Jake	DONE	2006	268	TK 601	KMTEX	KMTEX AT 7:15am go to Kmtex and load caustic from tank 601 and haul to ces port arthur for the feed tank	0630	1/4 Day
81489	Norton Jake	DONE	2006	268	TK 607	KMTEX	KMTEX AT 9:45am go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	2nd	1/4 Day

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ช1490	Norton Jake	CANCEL	2006	268	TK 607	KMTEX	KMTEX AT 12:15pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	3rd	1/4 Day
81526.	Norton Jake	pre-load only DONE	2006	239		CES Environmental Services @ KMTEX	Go to KMTEX and load from Tank 166 and haul to PACES **need to get sample and run titration for delivery to arkansas**	4th	1/4 Day
81431	Sittig Brent	DONE	273	8177		Conoco Phillips (Westlake LA)	pickup load of sulfuric acid from lake charles and haul to ces PAneed stainless trailer	0700	1/2 Day
81411	Sittig Brent	DONE	273	255		CES Environmental Services - Port Arthur	haul loaded caustic trailer on PACES yard to DeRidder	2nd	1/2 Day
81552	Wilson Kevin	DONE	2004	269		Total Petrochemicals Inc Port Arthur, TX	p/u Naphthenic caustic as directed, haul to PACES**MUST BE ON TIME	0600	1/4 Day
81574	Wilson Kevin		20074	266		KMTEX	load of reg w/w to newpark	2nd	1/4 Day
81576	Wilson Kevin	LOADED	2004	266		KMTEX	load of reg w/w to newpark	3rd	1/4 Day
81571	Wilson Kevin	need to pre- loadoffload wed 2/18 done	2004	266	let kmtex know	KMTEX	load of reg w/w to newpark (preload and return to pacesoffload on 2/18)	4th	1/4 Day

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CES Environmental Port Arthur Dispatch Board

FOR: Wednesday 2/18/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
81404	Dominguez Jose	DONE	278	267	ggar (Salan Asiana usu ggar (Salan Salan CES Environmental Services @ KMTEX	**be at kmtex by 8:30am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0800	1/2 Day	
81415	Dominguez Jose	DONE	278	267		CES Environmental Services @ KMTEX	**be at kmtex by 4pm*** go to Kmtex and load caustic from tank 501 then haul to DeRidder	2nd	1/2 Day
/ *499 1/1	Frias Juan	DONE	2003	255		CES Environmental Services @ KMTEX	Be at KMTEX by 8:30am Go to KMTEX and load from Tank 166 and haul to PACES **need to get sample and run titration for delivery to arkansas**	0700	1/4 Day
81587	Frias Juan	IN ROUTE TO ARK	2003	255		CES Environmental Services - Port Arthur	haul loaded trailer to Evergreen Packaging in Pine Bluff, AR and offload Wednesday **2 day trip**	2nd	3/4 Day
81554	Hall Albert	DONE	299	LT-423		Total Petrochemicals Inc Port Arthur, TX	p/u Naphthenic caustic as directed, haul to PACES**MUST BE ON TIME	0800	1/3 Day
81462	Hall Albert	DONE	299	258		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
81745	Hall Albert	DONE	299	258		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
81733	Hall Albert	IN ROUTE	299	205		CES Environmental Services - Port Arthur	haul loaded trailer 205 to ces houston and drop on yardbase oil	4th	
Chrops	Mendoza Juan	DONE	2001	261		CES Environmental Services @ KMTEX	Be at KMTEX by 9:45am Go to KMTEX and load from Tank 166 and haul to PACES **need to get sample and run titration for delivery to arkansas**	0600	1/4 Day
81592	Mendoza Juan	IN ROUTE TO ARK	2001	261		CES Environmental Services - Port Arthur	haul loaded trailer to Evergreen Packaging in Pine Bluff, AR and offload Wednesday **2 day trip**	2nd	3/4 Day
81593	Norton Jake	DONE	2006	266		KMTEX	haul loaded trailer from 2/17 to Newpark and offload	0530	1/4 Day
81459	Norton Jake	DONE	2006	266	······································	CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/4 Day
81460	Norton Jake	DONE	2006	266		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/4 Day
81461	Norton Jake	CANCEL	2006	266		CES Environmental Services - Port Arthur	load wastewater and haul to np	4th	1/4 Day
(8155 5)	Sanchez Jose	DONE	2000	269		Total Petrochemicals Inc Port Arthur, TX	p/u Naphthenic caustic as directed, haul to PACES**MUST BE ON TIME	0600	1/3 Day
81464	Sanchez Jose	DONE	2000	1264		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
81463	Sanchez Jose	DONE	2000	1264		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	3rd	1/3 Day
81577	Semien Peter	DONE	283	224		KMTEX	load of reg w/w to newpark	0630 am	1/3 Day

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81578	Semien Peter	DONE	283	224	KMTEX	load of reg w/w to newpark	2nd	1/3 Day
81579	Semien Peter	preloaded on lone	283	224	KMTEX	load of reg w/w to newpark	3rd	1/3 Day
81400	Sittig Brent	DONE	273	420	CES Environmental Services @ KMTEX	**be at kmtex by 07:15am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0630	1/2 Day
81409	Sittig Brent	DONE	273	420	CES Environmental Services @ KMTEX	Load WHITE LIQUOR from KMTEX tank 501 - Apt. time is 2:45pm MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	2nd	1/2 Day
81702	Soto Andre	IN ROUTE TO PRAXAIR	103		Praxair (Motiva Enterprises)	PACES to pick up 500 gallon SS tote no longer needed by Praxair, will pick up the 2nd tote at a later late		
81588	Wilson Kevin	IN ROUTE TO ARK	2004	239	CES Environmental Services - Port Arthur	haul loaded trailer to Evergreen Packaging in Pine Bluff, AR and offload Wednesday **2 day trip**	0600	Full Day
81495	Wood Brad	CANCEL	2005	268	KMTEX	KMTEX AT 7:15am go to Kmtex and load caustic from tank 601 and haul to ces port arthur for the feed tank	0630 am	Full Day
81496	Wood Brad	CANCEL	2005	268	KMTEX	KMTEX AT 9:45am go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	2nd	
81497	Wood Brad	DONE	2005	268	KMTEX	KMTEX AT 12:15pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	3rd	
€81499	Wood Brad	DONE	2005	268	KMTEX	KMTEX AT 2:45pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	4th	
81500	Wood Brad	LOADED ON LINE	2005	LT-423	KMTEX	KMTEX AT 4:00pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	5th	

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CES Environmental Port Arthur Dispatch Board

FOR: Thursday 2/19/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start Time	Job Length
ID							Description		
81799						T & ⊤ Delivery Services	The Control of Control		V
81405	Abreu Wilfrido	DONE	291	269		CES Environmental Services @ KMTEX	**be at kmtex by 8:30am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0800	1/2 Day
81677	Bozeman Donald	DONE	284	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	0700	1/3 Day
81678	Bozeman Donald	DONE	284	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	2nd	1/3 Day
81679	Bozeman Donald	DONE	284	258		CES Environmental Services - Port Arthur			1/3 Day
81401	Dominguez Jose	DONE	278	267		CES Environmental Services @ KMTEX	go to Kmtex and load caustic from tank 501 then haul to DeRidder ivironmental Services **be at kmtex by 2:45pm**		1/2 Day
81413	Dominguez Jose	CANCELED	278	267		CES Environmental Services (a) KMTEX **be at kmtex by 2:45pm** go to Kmtex and load caustic from tank 501 then haul to DeRidder		2nd	1/2 Day
0	Frias Juan	DONE	2003	255		CES Environmental Services - RETURNING FROM PINEBLUFF, ARK Port Arthur			Full Day
0	Mendoza Juan	DONE	2001	261		CES Environmental Services - Port Arthur	RETURNING FROM PINEBLUFF, ARK	-	Full Day
0	Norton Jake	DONE					take van trailer back to Burbank Barrel		
81680	Norton Jake	DONE	2006	266		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	0700	Full Day
81684	Norton Jake	DONE	2006	266		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	2nd	
81685	Norton Jake	DONE	2006	266		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	3rd	• •
81580	Sanchez Jose	DONE	2000	1264		KMTEX load of reg w/w to newpark		0630	1/3 Day
81581	Sanchez Jose	DONE	2000	1264		KMTEX load of reg w/w to newpark		2nd	1/3 Day
81582	Sanchez Jose	preloaded on line	2000	1264		KMTEX load of reg w/w to newpark		3rd	1/3 Day
MARRAGON	Sittig Brent	DONE	273	224		KMTEX haul loaded trailer to newpark and offloadloaded from 2/18 3rd load		0900	1/4 Day
81709	Sittig Brent	DONE	273	237		CES Environmental Services - haul 237 to Kmtex loaded with nash product. Unload into tank 166 at 1:30pm		2nd	1/4 Day
81407	Sittig Brent	DONE	273	420		CES Environmental Services @ KMTEX	Load WHITE LIQUOR from KMTEX tank 501 - Apt. time is 4pm MAKE SURE TRAILER IS MARKED WITH SPECIAL	3rd	1/2 Day

М	Δ	R	ΚT	N	C	S	11	

0 Wilson Kevin DONE 2004 239 CES Environmental Services - RETURNING FROM PINEBLUFF, ARK Full Day Port Arthur

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CES Environmental Port Arthur Dispatch Board

FOR: Friday 2/20/2009

Job Note ID	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job Description	Start Time	Job Lenath
81882	Bozeman Donald	DONE	284	270		CES Environmental Services - Port Arthur	haul loaded trailer 270 to ces houston and drop on yardbase oil	3rd	1/4 Day
81602	Dominguez Jose	DONE	278	267		CES Environmental Services @ KMTEX	**be at kmtex by 07:15am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0630 am	1/2 Day
81600	Dominguez Jose	DONE	278	267		CES Environmental Services @ KMTEX	**be at kmtex by 2:45pm** go to Kmtex and load caustic from tank 501 then haul to DeRidder	2nd	1/2 Day
81603	Frias Juan	CANCEL	2003	420		CES Environmental Services @ KMTEX	Load WHITE LIQUOR from KMTEX tank 501 - Apt. time is 8:30am MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	0800 am	1/2 Day
81604	Frias Juan	CANCEL	2003	420		CES Environmental Services @ KMTEX	**be at kmtex by 4pm*** go to Kmtex and load caustic from tank 501 then haul to DeRidder	2nd	1/2 Day
(DOW)	Mendoza Juan	DONE	2001	261		CES Environmental Services @ KMTEX	Be at KMTEX by 7:15am Go to KMTEX and load from Tank 166 and haul to PACES **need to get sample and run titration for delivery to bogalusa**	0630 am	1/4 Day
O CONTROLL	Mendoza Juan 81620	DONE	2001	261		Sochem Solutions, Inc.	haul loaded trailer to Temple Inland and offload	2nd	3/4 Day
81767	Norton Jake	DONE	2006	266		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	0630 am	1/3 Day
81766	Norton Jake	DONE	2006	266		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	2nd	1/3 Day
81765	Norton Jake	DONE	2006	266		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	3rd	1/3 Day
81762	Sanchez Jose	DONE	2000	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	0700 am	1/3 Day
81763	Sanchez Jose	DONE	2000	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	2nd	1/3 Day
81764	Sanchez Jose	DONE	2000	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	3rd	1/3 Day
81788	Sittig Brent	DONE	273	8177	ACID	Conoco Phillips (Westlake LA)	pickup load of sulfuric acid from lake charles and haul to ces PAneed stainless trailer	0700 am	1/2 Day
(81511 ⁷)	Sittig Brent	DONE	273	239		KMTEX	KMTEX AT 2:45pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	2nd	1/4 Day
80512	Sittig Brent	DONE	273	268		KMTEX	KMTEX AT 4:00pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	4th	1/4 Day
81761	Wilson Kevin	DONE	2004	255		CES Environmental Services @ KMTEX	Be at KMTEX by 8:30am Go to KMTEX and load from Tank 166 and haul to PACES **need to get sample and run titration for	0800 am	1/4 Day

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					delivery to bogalusa**		
	Wilson Kevin SIGIC	DONE	2004 255	Sochem Solutions, Inc.	haul loaded trailer to Temple Inland and offload	2nd	3/4 Day
81507	("Wood Brad	DONE	2005 268	KMTEX	KMTEX AT 7:15am go to Kmtex and load caustic from tank 601 and haul to ces port arthur for the feed tank	0630 am	1/4 Day
81508	Wood Brad	DONE	2005 268	KMTEX	KMTEX AT 9:45am go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	2nd	1/4 Day
81509	Wood Brad	DONE	2005 LT-423	KMTEX	KMTEX AT 12:15pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	3rd	1/4 Day

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CES Environmental Port Arthur Dispatch Board

FOR: Saturday 2/21/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
81605	Dominguez Jose	DONE	278	267		CES Environmental Services @ KMTEX	**be at kmtex by 07:15am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0630 am	1/2 Day
81606	Sittig Brent	DONE	273	420		CES Environmental Services @ KMTEX	**be at kmtex by 8:30am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0800 am	1/2 Day
81873	Sittig Brent	DONE	273	237		CES Environmental Services - Port Arthur	haul 237 to Kmtex loaded with nash product. Unload into tank 166 at 1:30pm	2nd	1/4 Day
81607	Wilson Kevin	DONE	2004	255		CES Environmental Services @ KMTEX	**be at kmtex by 9:45pm** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0900 am	1/2 Day

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CES Environmental Port Arthur Dispatch Board

FOR: Monday 2/23/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
81840	Bozeman Donald	DONE	284	266		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	0630	1/3 Day
81884	Bozeman Donald	DONE	284	266		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	2nd	1/3 Day
81822	Bozeman Donald		284	266		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	3rd	1/3 Day
81555	Dominguez Jose	DONE	278	420		Total Petrochemicals Inc Port Arthur, TX	p/u Naphthenic caustic as directed, haul to PACES**MUST BE ON TIME	0600 am	1/2 Day
81714	Dominguez Jose	IN ROUTE TO DERIDDER	278	420		CES Environmental Services @ KMTEX	Load WHITE LIQUOR from KMTEX tank 501 - Apt. time is 9:45am MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	2nd	1/2 Day
81820	Frias Juan	CANCEL	2003	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	2nd	1/3 Day
81821	Frias Juan	CANCEL	2003	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	3rd	1/3 Day
(B)(87/12/4)	Garza Alfredo	DONE	289	268		КМТЕХ	KMTEX AT 8:30am go to Kmtex and load caustic from tank 174 and haul to ces port arthur for the feed tank	0800	1/3 Day
81853	Garza Alfredo	DONE	289	268		KMTEX	KMTEX AT 9:45am go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	2nd	1/3 Day
818544	Garza Alfredo	DONE	289	268	•	KMTEX	KMTEX AT 12:15pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	3rd	1/3 Day
84863	Garza Alfredo	LOADING	289	267		KMTEX	KMTEX AT 2:45pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	4th	1/3 Day
CENTER OF THE PARTY	Garza Alfredo	- <u></u>	289	268	-	KMTEX	KMTEX AT 4:00pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	5th	1/3 Day
81711	Mendoza Juan	DONE	2001	261		CES Environmental Services @ KMTEX	**be at kmtex by 07:15am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0630 am	1/2 Day
81710	Mendoza Juan	IN ROUTE	2001	261		CES Environmental Services @ KMTEX	**be at kmtex by 2:45pm** go to Kmtex and load caustic from tank 501 then haul to DeRidder	2nd	1/2 Day
81817	Norton Jake	DONE	2006	LT-423		CES Environmental Services Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	0600	1/4 Day
81818	Norton Jake	DONE	2006	LT-423		CES Environmental Services Port Arthur	- load wastewater and haul to np make sure driver looks for batch ID	2nd	1/4 Day
81819	Norton Jake	DONE	2006	LT-423		CES Environmental Services Port Arthur	- load wastewater and haul to np make sure driver looks for batch ID	3rd	1/4 Day

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81843	Norton Jake	UN LOADING	2006	LT-423	CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	4th	1/4 Day
81712	Sanchez Omar	DONE	2000	255	CES Environmental Services @ KMTEX	**be at kmtex by 8:30am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0800 am	1/2 Day
81713	Sanchez Omar	Will need pump & Q/C at PACES	2000	255 Proloaded	CES Environmental Services © KMTEX	**be at kmtex by 4pm** go to Kmtex and load caustic from tank 501 then haul to DeRidder	2nd	1/2 Day
81659	Sittig Brent	AT KMTX	273	218	KMTEX	Haul box loaded with scrap metal and offload at site indicated by customer.	0800	1/3 Day
81811	Sittig Brent		273	1264	KMTEX	load of reg w/w to newpark	3rd	1/3 Day
81777	Wilson Kevin	UNLOADING	2004	224	KMTEX	load of reg w/w to newpark	0630	1/3 Day
81778	Wilson Kevin		2004	224	KMTEX	load of reg w/w to newpark	2nd	1/3 Day
81779	Wilson Kevin		2004	224	KMTEX	load of reg w/w to newpark	3rd	1/3 Day

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CES Environmental Port Arthur Dispatch Board

FOR: Tuesday 2/24/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
81897	Bozeman Donald	DONE	284	266		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	0630 am	1/3 Day
81899	Bozeman Donald	DONE	284	266		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	2nd	1/3 Day
81898	Bozeman Donald	DONE	284	266		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	3rd	1/3 Day
-815 56 °,	Dominguez Jose	at PACES	278	420		Total Petrochemicals Inc Port Arthur, TX	p/u Naphthenic caustic as directed, haul to PACES**MUST BE ON TIME	0600 am	1/3 Day
81990	Dominguez Jose	DONE	278	lt-423	1111	KMTEX	load of reg w/w to newpark	2nd	
81991	Dominguez Jose	DONE	278	lt-423		KMTEX	load of reg w/w to newpark	3rd	
81780	Frias Juan	DONE	2003	1264		KMTEX	load of reg w/w to newpark	0630 am	1/3 Day
81781	Frias Juan	DONE	2003	1264		KMTEX	load of reg w/w to newpark	2nd	1/3 Day
81782	Frias Juan	PRELOADED ON YARD	2003	1264		KMTEX	load of reg w/w to newpark	3rd	1/3 Day
81847	Mendoza Juan	IN ROUTE	2001	261		CES Environmental Services @ KMTEX	**be at kmtex by 07:15am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0630 am	1/2 Day
81893	Norton Jake	DONE	2006	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	0530 am	1/4 Day
81894	Norton Jake	DONE	2006	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	2nd	1/4 Day
81895	Norton Jake	DONE	2006	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	3rd	1/4 Day
81896	Norton Jake	DONE	2006	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	4th	1/4 Day
81912	Salazar Alfonso	IN ROUTE	279	255		CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.		1/2 Day
81910	Salazar Alfonso	DONE	279	255		CES Environmental Services - Port Arthur	haul preloaded trailer (2/23 4pm) to Boise Cascade & offload.	0630 am	1/2 Day
81816	Sittig Brent	DONE	2005	8177		Conoco Phillips (Westlake LA)	pickup load of sulfuric acid from lake charles and haul to ces PAneed stainless trailer	0630 am	1/2 Day
81907	Sittig Brent	UNLOADING	2005	237		CES Environmental Services - Port Arthur	haul 237 to Kmtex loaded with nash product. Unload into tank 166 at 1:30pm	2nd	1/4 Day
81988	Sittig Brent	preloaded on yard	2005	224		KMTEX	load of reg w/w to newpark	3rd	1000

CES Environmental Port Arthur Dispatch Board

FOR: Wednesday 2/25/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
81977	Abreu Wilfrido	DONE	2002	224		KMTEX	load of reg w/w to newpark	0630 am	1/3 Day
81979	Abreu Wilfrido	DONE	2002	224		KMTEX	load of reg w/w to newpark	2nd	1/3 Day
81980	Abreu Wilfrido	DONE	2002	224		KMTEX	load of reg w/w to newpark	3rd	1/3 Day
81557 ,	Dominguez Jose	DONE	278	420		Total Petrochemicals Inc Port Arthur, TX	p/u Naphthenic caustic as directed, haul to PACES**MUST BE ON TIME	0600 am	1/4 Day
81931	Dominguez Jose	DONE	278	420	-	CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	2nd	1/2 Day
81976	Frias Juan	DONE	2003	LT-423		KMTEX	load of reg w/w to newpark	0630 am	1/3 Day
81978	Frias Juan	DONE	2003	LT-423		КМТЕХ	load of reg w/w to newpark	2nd	1/3 Day
81982	Frias Juan	DONE	2003	LT-423		KMTEX	load of reg w/w to newpark	3rd	1/3 Day
82004	Hickman Robert	DONE	281	266		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	0630 am	1/3 Day
82003	Hickman Robert	AT NP	281	266		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	2nd	1/3 Day
82001	Hickman Robert	CANCEL	281	266	··········	CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	3rd	1/2 Day
81928	Mendoza Juan	DONE	2001	261		CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	0630 am	1/2 Day
81920	Mendoza Juan	DONE	2001	261		CES Environmental Services - Port Arthur	Load WHITE LIQUOR from CCL 7 & haul to Boise Cascade. MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	2nd	1/2 Day
0	Norton Jake	XXXX					TWIC AT 16:45		
82007	Norton Jake	DONE	2006	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	0630	1/3 Day
82006	Norton Jake	DONE	2006	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	2nd	1/3 Day
82005	Norton Jake	PRE-LOADED (Cancel)	2006	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	3rd	1/3 Day
81876	Salazar Alfonso	DONE	279	255		KMTEX	KMTEX AT 7:15am go to Kmtex and load caustic from tank 174 and haul to ces port arthur for the feed tank	0630 am	Full Day
81860	Salazar Alfonso	DONE	279	255		KMTEX	KMTEX AT 9:45am go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	2nd	

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81856	Salazar Alfonso	DONE	279	255	KMTEX	KMTEX AT 12:15pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	3rd	
81865*	Salazar Alfonso	DONE	279	255	KMTEX	KMTEX AT 2:45pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	4th	
84870	Salazar Alfonso	DONE	279	255	КМТЕХ	KMTEX AT 4:00pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	5th	
81930	Sittig Brent	DONE	2005	267	CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	0630 am	1/2 Day
81929	Sittig Brent	DONE	2005	267	CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	2nd	1/2 Day
81892	Wilson Kevin	LOADED ON THE LINE	2004	239	TT Barge	haul empty trailer to TT Barge in Port Allen, LA. To pick up a load of caustic and return to PACES	0400 am	3/4 Day
82047	Wilson Kevin	DONE	286	237 need to print paperwork	CES Environmental Services - Port Arthur	haul 237 to Kmtex loaded with nash product. Unload into tank 166 at 4:00pm	2nd	1/4 Day

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CES Environmental Port Arthur Dispatch Board

FOR: Thursday 2/26/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
82009	Carrillo Rudy	DONE	282	224		KMTEX	load of reg w/w to newpark	0630	1/3 Day
82010	Carrillo Rudy	DONE	282	224		КМТЕХ	load of reg w/w to newpark	2nd	1/3 Day
82011	Carrillo Rudy	DONE	282	224		KMTEX	load of reg w/w to newpark	3rd	1/3 Day
81921	Dominguez Jose	DONE	278	420		CES Environmental Services - Port Arthur	Load WHITE LIQUOR from CCL 7 & haul to Boise Cascade. MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	0700	1/2 Day
0	Dominguez Jose	NEEDS TO RESCHEDULE					TWIC AT 16:00	2nd	1/2 Day
82045	Frias Juan	DONE	2003	1264	COMMISSION OF THE PROPERTY OF	KMTEX	haul loaded trailer on line to Newpark	0600	1/4 Day
82061	Frias Juan	DONE	2003	1264		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	2nd	1/4 Day
82062	Frias Juan	DONE	2003	1264		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	3rd	1/4 Day
82191	Hall Albert	DONE	299	244		CES Environmental Services - Port Arthur	haul trailer 244 with empty drums to CES Houston		
81877	Hall Albert	DONE	299	255		KMTEX	KMTEX AT 7:15am go to Kmtex and load caustic from tank 174 and haul to ces port arthur for the feed tank	0630	1/4 Day
81861	Hall Albert	DONE	299	255		KMTEX	KMTEX AT 9:45am go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	2nd	1/4 Day
81857	Hall Albert	DONE	299	255		KMTEX	KMTEX AT 12:15pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	3rd	1/4 Day
81866	Hall Albert	DONE	299	255		KMTEX	KMTEX AT 2:45pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	4th	1/4 Day
81871*	Hall Albert	DONE	299	255		KMTEX	KMTEX AT 4:00pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	5th	1/4 Day
81932	Mendoza Juan	DONE	2001	261		CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	0630	1/2 Day
82097	Mendoza Juan	DONE	2001	261		CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	2nd	1/2 Day
82057	Norton Jake	DONE	2006	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	0600	1/4 Day
82058	Norton Jake	DONE	2006	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	2nd	1/4 Day

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82009	Norton Jake	DONE	2006	258	CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	3rd	1/4 Day
82060	Norton Jake	CANCELED	2006	258	CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	4th	1/4 Day
82043	Sittig Brent	DUPLICATE	2005	8177	Conoco Phillips (Westlake LA)	pickup load of sulfuric acid from lake charles and haul to ces PAneed stainless trailer		. ,
82043	Sittig Brent	DONE	2005	8177	Conoco Phillips (Westlake LA)	pickup load of sulfuric acid from lake charles and haul to ces PAneed stainless trailer	0700	1/2 Day
\$2065	Sittig Brent	DONE	2005	260	Citgo Refinery	clean trailer?? Load naphthenic caustic from Citgo in Lake Charles and haul to PACES.	2nd	1/2 Day
81933	Wilson Kevin	DONE	2004	267	CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	0630	1/2 Day
81934	Wilson Kevin	DONE	2004	267	CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	2nd	1/2 Day

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CES Environmental Port Arthur Dispatch Board

FOR: Friday 2/27/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job Description	Start Time	Job Length
82012	Abreu Wilfrido	DONE	2002	224		KMTEX	load of reg w/w to newpark	0630	1/3 Day
02012	Abrea Williao		2002	22T		N.11 EX			1/3 Day
82013	Abreu Wilfrido	DONE	2002	224		KMTEX	load of reg w/w to newpark	2nd	1/3 Day
82014	Abreu Wilfrido	PRELOADED ON LINE	2002	224		KMTEX	load of reg w/w to newpark	3rd	1/3 Day
0	Dominguez Jose	***OFF***							Full Day
0	Frias Juan	Dr's apt.					TWIC AT 16:30		
82108	Hickman Robert	DONE	281	1264		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	0630 am	1/3 Day
82109	Hickman Robert	DONE	281	1264		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	2nd	1/3 Day
82111	Hickman Robert	CANCELED	281	1264		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	3rd	1/3 Day
81938	Mendoza Juan	DONE	2001	261		CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	0630 am	1/2 Day
81935	Mendoza Juan	DONE	2001	261		CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	2nd	1/2 Day
82113	Norton Jake	DONE	2006	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	0630 am	1/3 Day
82112	Norton Jake	DONE	2006	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	2nd	1/4 Day
82114	Norton Jake	DONE	2006	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	3rd	1/3 Day
82148	Rosales Candido	DONE	290	208		KMTEX	load of reg w/w to newpark	0600 am	1/3 Day
82149	Rosales Candido	DONE	290	208		KMTEX	load of reg w/w to newpark	2nd	1/3 Day
82150	Rosales Candido	DONE	290	208		KMTEX	load of reg w/w to newpark	3rd	1/3 Day
81878	Sanchez Omar	DONE	2000	255		KMTEX	KMTEX AT 7:15am go to Kmtex and load caustic from tank 174 and haul to ces port arthur for the feed tank	0630 am	1/4 Day
81862	Sanchez Omar	DONE	2000	255		KMTEX	KMTEX AT 9:45am go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	2nd	1/4 Day
81858	Sanchez Omar	DONE	2000	255		KMTEX	KMTEX AT 12:15pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	3rd	1/4 Day

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	Sanchez Omar	DONE	2000	255	КМТЕХ	KMTEX AT 2:45pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	4th	1/4 Day
82044	Sittig Brent	DONE	273	8177	Conoco Phillips (Westlake LA) pickup load of sulfuric acid from lake charles and haul to ces PAneed stainless trailer	0630 am	1/2 Day
81825	Sittig Brent	DONE	273	218	CES Environmental Services - Port Arthur	pickup trash box from port arthur facility to WM Newton Co and offload	2nd	1/2 Day
81937	Whitehead Charles	DONE	285	266	CES Environmental Services Port Arthur	load from CCL 7 & haul to Boise Cascade.	0630 AM	1/2 Day
81936	Wilson Kevin	DONE	2004	267	CES Environmental Services Port Arthur	load from CCL 7 & haul to Boise Cascade.	0630 am	1/2 Day
81922	Wilson Kevin	DONE	2004	267	CES Environmental Services Port Arthur	 Load WHITE LIQUOR from CCL 7 & haul to Boise Cascade. MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!! 	2nd	1/2 Day
82163	Wood Brad	DONE	2005	237	CES Environmental Services Port Arthur	- haul 237 to Kmtex loaded with nash product. Unload into tank 166 at 4:00pm	· · · - ·	

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CES Environmental Port Arthur Dispatch Board

FOR: Saturday 2/28/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
81940	Frias Juan	DONE	2003	261		CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	0700 am	1/2 Day
81941	Frias Juan	DONE	2003	266		CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	2nd	1/2 Day
82100	Sittig Brent	DONE	273	8177			pickup load of sulfuric acid from lake charles and haul to ces PAneed stainless trailer		1/2 Day
82180	Whitehead Charles	LOADED ON LINE	285	239		TT Barge	haul empty trailer to TT Barge in Port Allen, LA. To pick up a load of caustic and return to PACES	0500 am	Full Day
82214	Wilson Kevin	LOADED ON LINE	2004	268		TT Barge	haul empty trailer to TT Barge in Port Allen, LA. To pick up a load of caustic and return to PACES	0500 am	Full Day
81939	Wood Brad	DONE	2005	255		CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	0700 am	1/2 Day

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CES Environmental Port Arthur Dispatch Board

FOR: Monday 2/2/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
80581	Berry Noah	DONE	287	1264		KMTEX	load of reg w/w to np	0630	1/3 Day
80582	Berry Noah	DONE	278	1264		KMTEX	load of reg w/w to np	2nd	1/3 Day
80583	Berry Noah	CANCELED	287	1264		KMTEX	load of reg w/w to np	3rd	1/3 Day
80666	Crawford Carl	DONE	285	269		Total Petrochemicals Inc Port Arthur, TX	p/u Naphthenic caustic as directed, haul to PACES**MUST BE ON TIME	0600 am	1/3 Day
80670	Crawford Carl	DONE	285	269		Targa Midstream Services LP	load LSNG w/ammonia, Haul to CES PA	2nd	1/3 Day
80737	Dominguez Jose	DONE	278	LT- 1047		CES Environmental Services @ KMTEX	**be at kmtex by 9:45pm** go to Kmtex and load caustic from tank 501 and bring to PACES for Q/C then haul to DeRidder	0900 am	1/2 Day
80660	Dominguez Jose	**CANCELLED** REPLACED BY CAUSTIC LOAD	278	LT- 1047		CES Environmental Services @ KMTEX	Load WHITE LIQUOR from KMTEX tank 501 - Apt. time is 9:45am go to PACES to be Q/C prior to heading to DeRidder. MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	0900 am	1/2 Day
80703	Frias Juan	DONE	2003	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	0630 am	1/3 Day
80702	Frias Juan	DONE	2003	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
80701	Frias Juan	CANCELED	2003	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
80638	Mendoza Juan	DONE	2001	LT-638		CES Environmental Services @ KMTEX	**be at kmtex by 07:15am** go to Kmtex and load caustic from tank 501 and bring to PACES for Q/C then haul to DeRidder	0630 am	1/2 Day
80650	Mendoza Juan	DONE	2001	LT-638		CES Environmental Services @ KMTEX	**be at kmtex by 2:45pm** go to Kmtex and load caustic from tank 501 and bring to PACES for Q/C then haul to DeRidder	2nd	1/2 Day
80705	Norton Jake	DONE	2006	267		CES Environmental Services - Port Arthur	- load wastewater and haul to np	0630 am	1/3 Day
80700	Norton Jake	DONE	2006	267		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
80704	Norton Jake	CANCELED	2006	267		CES Environmental Services - Port Arthur	- load wastewater and haul to np	3rd	1/3 Day
80644	Sittig Brent	DONE	273	Lt848		CES Environmental Services @ KMTEX	**be at kmtex by 8:30am** go to Kmtex and load caustic from tank 501 and bring to PACES for Q/C then haul to DeRidder	0800 am	1/2 Day
80651	Sittig Brent	DONE	273	LT-848		CES Environmental Services @ KMTEX	**be at kmtex by 4pm** go to Kmtex and load caustic from tank 501 and bring to PACES for Q/C then haul to DeRidder	2nd	1/2 Day

294 255

Pick-up tractor 294 and hook up to trailer 255 and drop 255 at KMTX

1/3 Day

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CES Environmental Port Arthur Dispatch Board

FOR: Thursday 2/5/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
80671	Crawford Carl	DONE	285	269		Targa Midstream Services LP	load CBF, Haul to CES PAwill redirect to deridder	0530	1/4 Day
80647	Crawford Carl	DONE	285	269		CES Environmental Services @ KMTEX	haul targa cbf redirect to deridder	2nd	3/4 Day
0	Dominguez Jose						OFF - RESTART HOURS FOR SAT.		Full Day
80664	Frias Juan	DONE	2003	267		CES Environmental Services @ KMTEX	Load WHITE LIQUOR from KMTEX tank 501 - Apt. time is 8:30am MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	0730	1/2 Day
80972	Frias Juan	CANCELED	2003	LT-848		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
80641	Mendoza Juan	DONE	2001	LT-638		CES Environmental Services @ KMTEX	**be at kmtex by 07:15am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0600	1/2 Day
80654	Mendoza Juan	DONE	2001	LT-638		CES Environmental Services @ KMTEX	**be at kmtex by 2:45pm** go to Kmtex and load caustic from tank 501 then haul to DeRidder	2nd	1/2 Day
81032	Norton Jake	DONE	2006	246		CES Environmental Services - Port Arthur	haul trailer 246 with empty drums to CES Houston pick up van trailer 244		
80908	Norton Jake	DONE	2006	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	0600	1/3 Day
80907	Norton Jake	DONE	2006	LT-848		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
80971	Norton Jake	CANCELED	2006	208		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
80973	Sittig Brent	DONE	273	LT-423		Nederland Tank Wash	pick up LT-423 after being steamed and bring back to PACES	0700	1/4 Day
80984	Sittig Brent	IN ROUTE TO CITGO	273	260		Citgo Refinery	load naphthenic caustic from citgo in lake charles and haul to ces port arthur **need to take a clean trailer!!	2nd	3/4 Day
80956	Wilson Kevin	DONE	278	265		CES Environmental Services - Port Arthur	haul loaded trailer 265 to ces houston and drop on yardbase oil bring back 239	0600	1/2 Day
81015	Wilson Kevin	DONE	2004	239		CES Environmental Services - Port Arthur	pickup a load of NaHS from kmtex tank 166 at 1:30pm and return load to PACES	2nd	1/4 Day
81016	Wilson Kevin	DONE	2004	261		CES Environmental Services - Port Arthur	pickup a load of NaHS from kmtex tank 166 at 2:45pm and return load to PACES	3rd	1/4 Day

CES Environmental Port Arthur Dispatch Board

FOR: Thursday 2/12/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
81242	Crawford Carl	DONE	285	LT-423		Arkema, Inc Houston	Pick up caustic and haul to ces. Be onsite at 8:00am! Must be a clean trailer.	0600	1/2 Day
81245	Crawford Carl	IN ROUTE	285	LT-423	· · · · · · · · · · · · · · · · · · ·	CES Environmental Services @ KMTEX	haul Arkema redirect to deridder	2nd	1/2 Day
0	Dominguez Jose	***OFF***							Full Day
0	Frias Juan					CES Environmental Services, Inc.	Working in Houstonrunning a Lubrizol load to Kansas	0400	Full Day
81324	Garza Alfredo		289	258		CES Environmental Services - Port Arthur	load wastewater and haul to np	0830	1/3 Day
81322	Garza Alfredo		289	258		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
81323	Garza Alfredo		289	258		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
80898	Hall Albert	HOUSTON DRV.#2 Preload for 2/13/09	299	255		CES Environmental Services @ KMTEX	PRELOAD FOR 2/13/09	0800	1/2 Day
81062	Mendoza Juan	Preload for 2/13/09	2001	261		Targa Midstream Services LP	load CBF, Haul to CES PAwill redirect to deridder	0600	1/2 Day
81318	Norton Jake	DONE	2006	420		CES Environmental Services - Port Arthur	load wastewater and haul to np	0800	1/3 Day
81319	Norton Jake		2006	420		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/3 Day
81321	Norton Jake		2006	420		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/3 Day
80888	Sittig Brent	DONE	273	269		CES Environmental Services @ KMTEX	**be at kmtex by 07:15am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0630	1/2 Day
81172	Wilson Kevin	DONE	2004	1264		KMTEX	load of reg w/w to newpark	0630	1/3 Day
81173	Wilson Kevin		2004	1264	<u> </u>	KMTEX	load of reg w/w to newpark	2nd	1/3 Day
81300	Wilson Kevin	DONE	2004	1264		KMTEX	load of reg w/w to newpark	3rd	1/3 Day

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CES Environmental Port Arthur Dispatch Board

FOR: Friday 2/13/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job Description	Start Time	Job Length
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81243	Crawford Carl	LOADED ON THE LINE (DO NOT OFFLOAD!!)	285	266		Arkema, Inc Houston	Pick up caustic and haul to ces. Be onsite at 8:00am! Must be a clean trailer.	0600	1/2 Day
81374	Crawford Carl	CANCEL	285	258		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/4 Day
81376	Crawford Carl	CANCEL	285	258		CES Environmental Services - Port Arthur	load wastewater and haul to np	3rd	1/4 Day
0	Dominguez Jose	DONE					OFF ALL DAY		Full Day
81063	Mendoza Juan		2001	261		CES Environmental Services - Port Arthur	haul targa cbf redirect to deridder		
81063	Mendoza Juan	DONE	2001	261		CES Environmental Services - Port Arthur	haul targa cbf redirect to deridder	0600	1/2 Day
81372	Mendoza Juan	CANCEL	2001	261		CES Environmental Services - Port Arthur	load wastewater and haul to np	2nd	1/4 Day
81469	Mendoza Juan	DONE	294	260		CES Environmental Services - Port Arthur	haul loaded trailer 260 to ces houston and drop on yardbase oil	3rd	1/4 Day
81377	Norton Jake	DONE	2006	239		KMTEX	KMTEX AT 07:15am go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	0630	1/4 Day
81378	Norton Jake	DONE	2006	239		KMTEX	KMTEX AT 09:45AM go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	2nd	1/4 Day
81379	Norton Jake	LOADED ON THE LINE	2006	239		KMTEX	KMTEX AT 12:15PM go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	3rd	1/4 Day
81385	Norton Jake	DONE (dropped at the tankwash)	2006	208		CES Environmental Services - Port Arthur	- haul 208 Kmtex loaded with nash product. Unload into tank 166 13:45pm	4th	1/4 Day
81369	Salazar Alfonso	CANCEL	279	420		CES Environmental Services - Port Arthur	- load wastewater and haul to np	0700	1/4 Day
81370	Salazar Alfonso	CANCEL	279	420		CES Environmental Services - Port Arthur	- load wastewater and haul to np	2nd	1/4 Day
81371	Salazar Alfonso	CANCEL	279	420		CES Environmental Services - Port Arthur	- load wastewater and haul to np	3rd	1/4 Day
81472	Salazar Alfonso	DONE	279	LT-638		CES Environmental Services - Port Arthur	- haul trailer LT-638 to DANA Container and sign in for cleaning	4th	
81175	Sittig Brent	DONE	273	1264		KMTEX	load of reg w/w to newpark	0600	1/3 Day
81176	Sittig Brent	DONE	273	1264		KMTEX	load of reg w/w to newpark	2nd	1/3 Day

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CES Environmental Port Arthur Dispatch Board

FOR: Monday 2/16/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID					•		Description	Time	Length
81402	Crawford Carl	LOADED ON LINE	285	255		CES Environmental Services @ KMTEX	**be at kmtex by 8:30am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0800	1/2 Day
81414	Crawford Carl	**CANCELLED**	285	255		CES Environmental Services @ KMTEX	**be at kmtex by 4pm*** go to Kmtex and load caustic from tank 501 then haul to DeRidder	2nd	1/2 Day
81481	Dominguez Jose	DONE	278	258		CES Environmental Services - Port Arthur	load wastewater and haul to US Oil Recovery	0600	1/2 Day
81453	Dominguez Jose	DONE	278	268		CES Environmental Services - Port Arthur	haul 268 Kmtex loaded with nash product. Unload into tank 166 4:00pm	2nd	1/2 Day
81486	Dominguez Jose	CANCEL	278	258		CES Environmental Services - Port Arthur	load wastewater and haul to US Oil Recovery	2nd	1/2 Day
81482	Frias Juan	DONE	2003	420		CES Environmental Services - Port Arthur	load wastewater and haul to US Oil Recovery	0530	1/2 Day
81483	Frias Juan	CANCEL	2003	420		CES Environmental Services - Port Arthur	load wastewater and haul to US Oil Recovery	2nd	1/2 Day
81398	Mendoza Juan	DONE	2001	261		CES Environmental Services @ KMTEX	**be at kmtex by 07:15am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0630	1/2 Day
81410	Mendoza Juan	DONE	2001	261		CES Environmental Services @ KMTEX	**be at kmtex by 2:45pm** go to Kmtex and load caustic from tank 501 then haul to DeRidder	2nd	1/2 Day
81432	Norton Jake	DONE	2006	LT-423	ГК 601	KMTEX	KMTEX AT 7:15am go to Kmtex and load caustic from tank 601 and haul to ces port arthur for the feed tank	0630	Full Day
81433	Norton Jake	DONE	2006	LT-423	TK 607	KMTEX	KMTEX AT 9:45am go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	2nd	
81434	Norton Jake	LOADED ON THE LINE	2006	LT-423	ГК 607	KMTEX	KMTEX AT 12:15pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	3rd	
81435	Norton Jake	CANCEL	2006	LT-423		KMTEX	KMTEX AT 2:45pm go to Kmtex and load caustic from tank 601 and haul to ces port arthur for the feed tank	4th	
81436	Norton Jake	CANCEL	2006	LT-423		KMTEX	KMTEX AT 4:00pm go to Kmtex and load caustic from tank 601 and haul to ces port arthur for the feed tank	5th	
81484	Salazar Alfonso	CANCEL	279	1264		CES Environmental Services - Port Arthur	load wastewater and haul to US Oil Recovery	0700	1/2 Day
81485	Salazar Alfonso	CANCEL	279	1264		CES Environmental Services - Port Arthur	- load wastewater and haul to US Oil Recovery	2nd	1/2 Day
81408	Sittig Brent	DONE	273	266		CES Environmental Services @ KMTEX	Load WHITE LIQUOR from KMTEX tank 501 - Apt. time is 9:45am MAKE SURE TRAILER IS MARKED WITH SPECIAL	0900	1/2 Day

						MARKINGS!!		
81467	Wilson Kevin	DONE	2004	269	TT Barge	haul empty trailer269 to TT Barge in Port Allen, LA. To pick up a load of caustic and return to PACES	0500	1/2 Day
 							-	

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CES Environmental Port Arthur Dispatch Board

FOR: Friday 2/20/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
			The State of the S	Wilson Taxasia Cinquing Special (Toronto)			Description	Time	Length
81882	Bozeman Donald	DONE	284	270		CES Environmental Services - Port Arthur	haul loaded trailer 270 to ces houston and drop on yardbase oil	3rd	1/4 Day
81602	Dominguez Jose	DONE	278	267		CES Environmental Services @ KMTEX	**be at kmtex by 07:15am** go to Kmtex and load caustic from tank 501 then haul to DeRidder	0630 am	1/2 Day
81600	Dominguez Jose	DONE	278	267		CES Environmental Services @ KMTEX	**be at kmtex by 2:45pm** go to Kmtex and load caustic from tank 501 then haul to DeRidder	2nd	1/2 Day
81603	Frias Juan	CANCEL	2003	420		CES Environmental Services @ KMTEX	Load WHITE LIQUOR from KMTEX tank 501 - Apt. time is 8:30am MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	0800 am	1/2 Day
81604	Frias Juan	CANCEL	2003	420		CES Environmental Services @ KMTEX	**be at kmtex by 4pm*** go to Kmtex and load caustic from tank 501 then haul to DeRidder	2nd	1/2 Day
81760	Mendoza Juan	DONE	2001	261		CES Environmental Services @ KMTEX	Be at KMTEX by 7:15am Go to KMTEX and load from Tank 166 and haul to PACES **need to get sample and run titration for delivery to bogalusa**	0630 am	1/4 Day
81620	Mendoza Juan	DONE	2001	261		Sochem Solutions, Inc.	haul loaded trailer to Temple Inland and offload	2nd	3/4 Day
81767	Norton Jake	DONE	2006	266		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	0630 am	1/3 Day
81766	Norton Jake	DONE	2006	266		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	2nd	1/3 Day
81765	Norton Jake	DONE	2006	266		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	3rd	1/3 Day
81762	Sanchez Jose	DONE	2000	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	0700 am	1/3 Day
81763	Sanchez Jose	DONE	2000	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	2nd	1/3 Day
81764	Sanchez Jose	DONE	2000	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	3rd	1/3 Day
81788	Sittig Brent	DONE	273	8177		Conoco Phillips (Westlake LA)	pickup load of sulfuric acid from lake charles and haul to ces PAneed stainless trailer	0700 am	1/2 Day
81511	Sittig Brent	DONE	273	239		КМТЕХ	KMTEX AT 2:45pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	2nd	1/4 Day
81512	Sittig Brent	DONE	273	268		КМТЕХ	KMTEX AT 4:00pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	4th	1/4 Day
81761	Wilson Kevin	DONE	2004	255		CES Environmental Services @ KMTEX	Be at KMTEX by 8:30am Go to KMTEX and load from Tank 166 and haul to PACES **need to get sample and run titration for	0800 am	1/4 Day

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					delivery to bogalusa**		
81619	Wilson Kevin	DONE	2004 255	Sochem Solutions, Inc.	haul loaded trailer to Temple Inland and offload	2nd	3/4 Day
81507	Wood Brad	DONE	2005 268	КМТЕХ	KMTEX AT 7:15am go to Kmtex and load caustic from tank 601 and haul to ces port arthur for the feed tank	0630 am	1/4 Day
81508	Wood Brad	DONE	2005 268	KMTEX	KMTEX AT 9:45am go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	2nd	1/4 Day
81509	Wood Brad	DONE	2005 LT-423	КМТЕХ	KMTEX AT 12:15pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	3rd	1/4 Day

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CES Environmental Port Arthur Dispatch Board

FOR: Monday 3/2/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job Description	Start Time	Job Length
81942	Dominguez Jose	IN ROUTE	278	261	осительную при при тереворий при при при при при при при при при при	CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	0630 am	the second second.
81923	Dominguez Jose		278	261		CES Environmental Services - Port Arthur	Load WHITE LIQUOR from CCL 7 & haul to Boise Cascade. MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	2nd	1/2 Day
82267	Frias Juan	DONE	2003	237		KMTEX	KMTEX AT 07:15am go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	0630 am	1/4 Day
82266	Frias Juan	LOADING	2003	237		КМТЕХ	KMTEX AT11:00AM go to Kmtex and load caustic from tank 174 and haul to ces port arthur for the feed tank	2nd	1/4 Day
82269	Frias Juan		2003	237		KMTEX	KMTEX AT 13:30pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	3rd	1/4 Day
82270	Frias Juan		2003	237		КМТЕХ	KMTEX AT 4:00pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	4th	1/4 Day
82069	Gonzales Joe		297	247		Delta Chemical	Drum pick up. Haul trailer to PACES and drop.		
82161	Gonzales Joe		297	230		Delta Chemical	Drum pick up. Haul trailer to PACES and drop.		
0	Mendoza Juan	***OFF***							Full Day
82177	Norton Jake	IN ROUTE	2006	1264		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	0530 am	1/4 Day
82176	Norton Jake		2006	1264		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	2nd	1/4 Day
82175	Norton Jake		2006	1264	3)	CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	3rd	1/4 Day
82174	Norton Jake		2006	1264		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	4th	1/4 Day
82216	Sittig Brent	DONE	273	255		Total Petrochemicals Inc Port Arthur, TX	p/u Naphthenic caustic as directed, haul to PACES**MUST BE ON TIME	0600 am	1/4 Day
82217	Sittig Brent		273	255		Total Petrochemicals Inc Port Arthur, TX	p/u Naphthenic caustic as directed, haul to PACES**MUST BE ON TIME	2nd	1/4 Day
81945	Sittig Brent	LOADING	273	255		CES Environmental Services Port Arthur	- load from CCL 7 & haul to Boise Cascade.	3rd	1/2 Day
81944	Whitehead Charles	LOADING	285	267		CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	0630 am	1/2 Day
81943	Whitehead Charles		285	267		CES Environmental Services Port Arthur	- load from CCL 7 & haul to Boise Cascade.	2nd	1/2 Day

82168	Wilson Kevin	2004	266	KMTEX	load of reg w/w to newpark	0630 am	1/3 Day
82169	Wilson Kevin	2004	266	KMTEX	load of reg w/w to newpark	2nd	1/3 Day
82170	Wilson Kevin	2004	266	KMTEX	load of reg w/w to newpark	3rd	1/3 Day

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CES Environmental Port Arthur Dispatch Board

FOR: Monday 3/2/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID							Description	Time	Length
81942	Dominguez Jose	IN ROUTE	278	261		CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	0630 am	1/2 Day
81923	Dominguez Jose		278	261		CES Environmental Services - Port Arthur	Load WHITE LIQUOR from CCL 7 & haul to Boise Cascade. MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	2nd	1/2 Day
82267	Frias Juan	DONE	2003	237		KMTEX	KMTEX AT 07:15am go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	0630 am	1/4 Day
82266	Frias Juan	LOADING	2003	237		KMTEX	KMTEX AT11:00AM go to Kmtex and load caustic from tank 174 and haul to ces port arthur for the feed tank	2nd	1/4 Day
82269	Frias Juan		2003	237		KMTEX	KMTEX AT 13:30pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	3rd	1/4 Day
82270	Frias Juan		2003	237		KMTEX	KMTEX AT 4:00pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	4th	1/4 Day
82069	Gonzales Joe		297	247		Delta Chemical	Drum pick up. Haul trailer to PACES and drop.		
82161	Gonzales Joe		297	230		Delta Chemical	Drum pick up. Haul trailer to PACES and drop.		
0	Mendoza Juan	***OFF***							Full Day
82177	Norton Jake	IN ROUTE	2006	1264		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	0530 am	1/4 Day
82176	Norton Jake		2006	1264		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	2nd	1/4 Day
82175	Norton Jake		2006	1264		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	3rd	1/4 Day
82174	Norton Jake		2006	1264		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	4th	1/4 Day
€ 82216	Sittig Brent	DONE	273	255	······································	Total Petrochemicals Inc Port Arthur, TX	p/u Naphthenic caustic as directed, haul to PACES**MUST BE ON TIME	0600 am	1/4 Day
82217	Sittig Brent		273	255		Total Petrochemicals Inc Port Arthur, TX	p/u Naphthenic caustic as directed, haul to PACES**MUST BE ON TIME	2nd	1/4 Day
81945	Sittig Brent	LOADING	273	255		CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	3rd	1/2 Day
81944	Whitehead Charles	LOADING	285	267		CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	0630 am	1/2 Day
81943	Whitehead Charles		285	267		CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	2nd	1/2 Day

82168	Wilson Kevin	2004	266	KMTEX	load of reg w/w to newpark	0630 am	1/3 Day
82169	Wilson Kevin	2004	266	KMTEX	load of reg w/w to newpark	2nd	1/3 Day
82170	Wilson Kevin	2004	266	KMTEX	load of reg w/w to newpark	3rd	1/3 Day

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CES Environmental Port Arthur Dispatch Board

FOR: Tuesday 3/3/2009

Job Note	Driver	Helper	Truck	Trailer	Misc Equipment	Customer	Job	Start	Job
ID				200			Description	Time	Length
82282	Dominguez Jose	DONE	278	237		KMTEX	KMTEX AT 7:15am go to Kmtex and load caustic from tank 192 and haul to ces port arthur for the feed tank	0630 AM	1/4 Day
82283	Dominguez Jose	DONE	278	269	ĕ	KMTEX	KMTEX AT 9:45am go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	2nd	1/4 Day
€82287	Dominguez Jose	DONE	278	237		КМТЕХ	KMTEX AT 12:15pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	3rd	1/4 Day
82291	Dominguez Jose	DONE	278	237		KMTEX	KMTEX AT 2:45pm go to Kmtex and load caustic from tank 607 and haul to ces port arthur for the feed tank	4th	1/4 Day
82302	Frias Juan	DONE	286	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	0630 am	1/3 Day
82301	Frias Juan	DONE	286	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	2nd	1/3 Day
82300	Frias Juan		286	258		CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	3rd	1/3 Day
82337	Hall Albert	DONE	299	208		KMTEX	load of reg w/w to newpark	0600 AM	1/3 Day
82338	Hall Albert	DONE	299	208		KMTEX	load of reg w/w to newpark	2nd	1/3 Day
82339	Hail Albert	DONE	299	208	TAKING TRL>TO HOUSTON	KMTEX	load of reg w/w to newpark	3rd	1/3 Day
81948	Mendoza Juan	DONE	2001	261	11 11 11 11 11 11 11 11 11 11 11 11 11	CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	0630 am	1/2 Day
81924	Mendoza Juan	DONE	2001	261	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CES Environmental Services - Port Arthur	Load WHITE LIQUOR from CCL 7 & haul to Boise Cascade. MAKE SURE TRAILER IS MARKED WITH SPECIAL MARKINGS!!	2nd	1/2 Day
82310	Norton Jake	DONE	2004	224		KMTEX	haul preloaded trailer to NP. And offload	0530 AM	1/4 Day
82171	Norton Jake	DONE	2006	224		KMTEX	load of reg w/w to newpark	2nd	1/4 Day
82172	Norton Jake	DONE	2006	224		KMTEX	load of reg w/w to newpark	3rd	1/4 Day
82173	Norton Jake	DONE	2006	224		KMTEX	load of reg w/w to newpark	4th	1/4 Day
82218	Sittig Brent	DONE	273	255		Total Petrochemicals Inc Port Arthur, TX	p/u Naphthenic caustic as directed, haul to PACES**MUST BE ON TIME	0600 am	1/4 Day
82219	Sittig Brent	DONE	273	255		Total Petrochemicals Inc Port Arthur, TX	p/u Naphthenic caustic as directed, haul to PACES**MUST BE ON TIME	2nd	1/4 Day

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82361	Sittig Brent	DONE	273	218	KMTEX	Haul box loaded with scrap metal and offload at site indicated by customer.	3rd	1/2 Day
81947	Whitehead Charles	DONE	285	267	CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	0630 am	1/2 Day
81946	Whitehead Charles	DONE	285	267	CES Environmental Services - Port Arthur	load from CCL 7 & haul to Boise Cascade.	2nd	1/2 Day
82359	Wilson Kevin	DONE	2004	266	KMTEX	haul preloaded trailer to NP. And offload	0530 AM	1/4 Day
82304	Wilson Kevin	DONE	2004	266	CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	2nd	1/4 Day
82303	Wilson Kevin	DONE	2004	266	CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	3rd	1/4 Day
82305	Wilson Kevin		2004	266	CES Environmental Services - Port Arthur	load wastewater and haul to np make sure driver looks for batch ID	4th	1/4 Day

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